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ABSTRACT

This publication reports on the rate at which minorities earned Bachelor's and Master's degrees in science and engineering in the 12-month period ending June 1995. This report contains general notes, data highlights, technical charts, detailed statistical tables, and a classification of programs. Data is displayed by gender, geographic location, and type of degree-granting institution. (DDR)

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1989–95

Detailed Statistical Tables

Division of Science Resources Studies
Directorate for Social, Behavioral, and Economic Sciences
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Contributors

Tabulations and charts were prepared by Quantum Research Corp. for the National Science Foundation. The author for this report was Susan T. Hill.

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General Notes

This publication is based on data obtained from two surveys. Bachelor's and master's degree data were collected by the National Center for Education Statistics, U.S. Department of Education, from all accredited institutions of higher education. Data on doctorates are from Survey of Earned Doctorates, a universe survey of individual doctorate recipients that is sponsored by the National Science Foundation (NSF) and four other Federal agencies.

These data cover earned degrees conferred in the aggregate United States, which includes the 50 States, the District of Columbia, and the U.S. Territories and Outlying Areas (American Samoa, the former Canal Zone, the Northern Mariana Islands, Puerto Rico, the U.S. Virgin Islands, and the Trust Territory of the Pacific Islands). Degree data are compiled for a 12-month period, July of one year through June of the following year. For convenience, degrees for such a given 12-month period will be referred to by the year in which the period ended, e.g., 1995 means the 12-month period ending June 1995.

There were two types of changes in the way data were collected during the period covered in this report. Because racial/ethnic data were collected by broad fields of study only (until 1995), the definition of science and engineering used by NSF for this trend report must include fields normally not included. There is one instance where this difference has a large impact—the broad field of "Social Sciences." The U.S. Department of Education includes the field of history in this broad category, so when it collected the racial/ethnic data up until 1995, this field is included.

Before 1985, the broad category of "Engineering" included engineering technologies. This report excludes engineering technologies so that trend data by race/ethnicity are more consistent with the definition of science and engineering used in other NSF reports. If the reader is interested in earlier data for science fields (that are consistent from 1977–93), please request *Science and Engineering Degrees, by Race/Ethnicity of Recipients: 1977–91*, NSF 94-306.

For more information, please contact the NSF principal author—

Susan T. Hill
Division of Science Resources Studies
National Science Foundation
4201 Wilson Boulevard, Suite 965
Arlington, VA 22230

Telephone: (703) 306-1774, ext. 6915
Internet: sthill@nsf.gov

Section A.
Data Highlights

Trends in Bachelor's Degrees Awarded to Racial/Ethnic Minorities in Science and Engineering

The number of bachelor's degrees in science and engineering (S&E) fields awarded to underrepresented minority students showed robust growth in the early 1990s, after a period of relatively slow growth from 1985–90.[1] From 1990–95, the number of baccalaureate recipients with degrees in S&E increased 51 percent for blacks, 59 percent for Hispanics, and 67 percent for American Indians. The percentage increases for underrepresented minority groups were higher than the percentage increases found among white recipients (9 percent) (table A-1).

Table A-1. Science and engineering bachelor's degrees, by race ethnicity of recipients: percentage change, 1985–90 and 1990–95

Race ethnicity	1985–90	1990–95
White, non-Hispanics	–4%	9%
Asians or Pacific Islanders	46	50
Underrepresented minorities, total	10	55
Black, non-Hispanics	7	51
Hispanics	16	59
American Indians or Alaskan Natives	–8	67

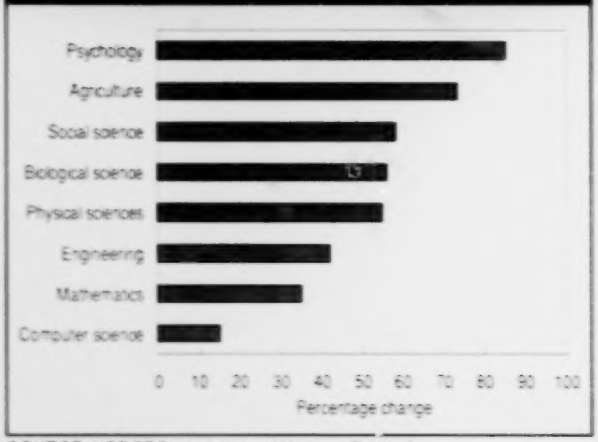
SOURCE: NSF SRS tabulations of National Center for Education Statistics Completions Survey data

In 1995 there were similar numbers of black bachelor's degree recipients in S&E (28 thousand) and Asian recipients (29 thousand). The number of Hispanics earning bachelor's degrees in S&E fields hit an all-time high of 22 thousand, as did American Indians (more than 2 thousand).

Even with this growth, minority students still comprised 28 percent of the "college-age" population (18–24 years old) in 1995, whereas baccalaureates earned by underrepresented minority students accounted for only 13 percent of the total S&E degrees in 1995.

Among underrepresented minority groups, the increases in baccalaureate degrees vary by field of science or engineering. From 1990–95 the percentage increases in baccalaureates awarded to underrepresented groups ranged from a 15-percent increase in computer science degrees to an increase of 85 percent in psychology degrees (chart A-1).

Chart A-1. Science and engineering degrees awarded to underrepresented minorities, by field: percentage change, 1990–95



SOURCE: NSF SRS tabulations of National Center for Education Statistics Completions Survey data

One-third of all bachelor's degree recipients of all racial/ethnic groups (except Asians, at 49 percent) chose S&E fields in 1995. Among those who majored in S&E fields in 1995, One-third of all bachelor's degree recipients of all racial/ethnic groups (except Asians, at 49 percent) chose S&E fields in 1995. Among those who majored in S&E, however, there are slight differences among racial/ethnic groups.

Degree awards have increased more in the social sciences, fields in which there is a slightly higher concentration of S&E bachelor's degree recipients among underrepresented minorities (58 percent) than among whites (53 percent).

[1] Before 1995, data were collected by race/ethnicity only for broad fields of study; in 1995 data were collected by specific fields of study.

Among S&E baccalaureate recipients in 1995, a slightly lower percentage of underrepresented minorities majored in engineering (13 percent) than did whites (15 percent), and the natural sciences (29 percent) than did whites (32 percent) (table A-2).

Although these slight differences exist, the gaps once found between the S&E field choices of underrepresented minorities and whites have virtually disappeared.

Table A-2. Percentage distribution of S&E bachelor's degree recipients, by broad S&E field: 1995

Race/ethnicity	Engineering	Natural Sciences	Social Sciences
Underrepresented minorities	13%	29%	58%
Whites	15	32	53
Asians	23	38	39

SOURCE: NSF/SRS tabulations of National Center for Education Statistics Completions Survey data

SECTION B.
TECHNICAL NOTES

INTRODUCTION

This report is based on final data from several Federal surveys. Two of them are the U.S. Department of Education's Survey of Degrees and Other Formal Awards Conferred, and the Completions Survey conducted annually by the National Center for Education Statistics (NCES) as part of the Higher Education General Information Survey (HEGIS), later renamed the Integrated Postsecondary Education Data System (IPEDS). The third is the Survey of Earned Doctorates, conducted annually for the National Science Foundation (NSF) and four other Federal agencies. Each source is described in more detail in the following sections.

Data from the Survey of Degrees and Other Formal Awards Conferred and from the Completions Survey were used to report the number of bachelor's and master's degrees. The data on doctoral degrees in this report were derived from the Survey of Earned Doctorates, which surveyed all individuals earning research doctorates, rather than from the Completions Survey, which surveyed the institutions awarding the doctorates. The Survey of Earned Doctorate data were preferred because the data provided by individuals are more specific with respect to the field of specialization and are less likely to contain errors in data reporting and data entry than are the aggregate data provided by institutions. Furthermore, doctorate data provide 100 percent coverage for data by field and sex of individual recipients, whereas institutional data are subject to imputation for nonresponse. For a comparison of reporting on doctoral degrees in the Completions Survey and the Survey of Earned Doctorates, see National Science Foundation, *Science and Engineering Doctorates: 1960–91*, NSF 93-301, Detailed Statistical Tables (Washington, DC, 1993).

In this report the racial and ethnic categories among U.S. citizens (and permanent resident aliens) who were degree recipients during the 1989–95 period are charted and tabulated. It is recognized that the concept of race/ethnicity is as much a socially constructed characteristic as a biological one. Scholars such as Farley and Allen have noted that "the sociological reality of race is more important than its biological reality. Race exerts a profound influence over the lives of people in this society."[2]

[2] Richard Farley and Walter R. Allen, The *Color Line and the Quality of Life in America* (New York: Russell Sage Foundation, 1987), p. 6.

The following five racial/ethnic categories currently are standard in Federal Government surveys of institutions:

- Black, non-Hispanic
- American Indian or Alaskan Native
- Asian or Pacific Islander
- Hispanic
- White, non-Hispanic

Persons who are U.S. citizens or foreign citizens admitted for permanent residence are classified into the above categories. The ethnic category of Hispanic took precedence over the racial categories in the data collection. In addition, nonresident aliens, i.e., those admitted to the United States for temporary residence, are separately identified as a sixth category in the survey. The nonresident aliens are not to be reported in the aforementioned racial/ethnic groups. In 1990, the category "Race/ethnicity unknown" was added.

The definitions for the racial/ethnic categories used in the survey are as follows:

Nonresident alien—A person who is not a citizen or national of the United States and who is in this country on a temporary basis and does not have the right to remain indefinitely. Resident aliens who are not citizens of the United States and who have been lawfully admitted for permanent residence (and who hold alien registration receipt cards—Form I-551/155) are to be reported in the appropriate racial/ethnic categories along with U.S. citizens.

Black, non-Hispanic—A person having origins in any of the black racial groups of Africa (except those of Hispanic origin).

American Indian or Alaskan Native—A person having origins in any of the original peoples of North America and who maintains cultural identification through tribal affiliation or community recognition.

Asian or Pacific Islander—A person having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands. These areas include, for example, China, Japan, Korea, the Philippine Islands, and Samoa.

Hispanic—A person of Mexican, Puerto Rican, Cuban, Central or South American, or other Spanish culture or origin, regardless of race.

White, non-Hispanic—A person having origins in any of the original peoples of Europe, North Africa, or the Middle East (except those of Hispanic origin).

Bachelor's and Master's Degree Data

Bachelor's and master's degree data presented in this report were derived from a survey conducted by NCES—the Completions Survey.

This survey requested data on the number of associate's, bachelor's, master's, doctoral, and first-professional degrees conferred by institutions of higher education. The data were requested according to sex of recipient and field of study for each degree level. Data on the race/ethnicity of degree recipients were collected biennially by NCES for the Office of Civil Rights from 1987 through 1989 and annually since then. A major limitation has been that data are collected only at the broad field level[1] (until 1995) and according to the Federal racial/ethnic designations of degree recipients.

The surveys were mailed to all accredited universities and colleges in the United States, including the U.S. territories, for completion by the institution. Followup for nonresponse and editing was conducted by letter and telephone. The overall response rate for institutions of higher education ranged between 94 and 97 percent between 1989 and 1995.

For the bachelor's and master's degree data, the manner of collecting racial and ethnic data is left to the discretion of the institution, provided that the system established results in reasonably accurate data. The information is gathered by NCES for the Office of Civil Rights, U.S. Department of Education, in compliance with title I of the Civil Rights Act of 1964 and title IX of the Education Amendments of 1972.

For institutions that did not report any racial/ethnic data by field, NCES imputed data on the basis of an earlier response for each institution, if available.

Table B-1 indicates the percentage of imputed data in 1995, by award level and racial/ethnic category.

In examining data on degrees awarded to minorities, it must be noted that 1 to 5 percent of all S&E degrees awarded in 1989–95 were reported as awarded to individuals whose race/ethnicity was unknown. This unknown category could affect trends and observable changes in the number and share of awards received by minority students, particularly if there are shifts from year to year in the number of degree recipients with unknown race/ethnicity. As tables 1-3 in Section D indicate, the share of degrees awarded to individuals whose race/ethnicity was unknown varied somewhat by degree level.

This NSF report differs from those published by NCES in that data for the U.S. Territories are included, whereas NCES excludes them from most of its published reports.

Doctoral Degree Data

In the Survey of Earned Doctorates, information is collected during the period of July 1 of one year to June 30 of the next from all persons who have fulfilled the requirements for a research doctorate. The survey is funded jointly by NSF and four other agencies: the U.S. Department of Education, the National Institutes of Health, the National Endowment for the Humanities, and the U.S. Department of Agriculture. The National Research Council sent the survey forms to all accredited doctorate-granting institutions for distribution by the graduate deans to all research doctorate recipients as they complete degree requirements. Information collected in the survey comprises demographic data, such as the student's sex, citizenship, ethnicity, and racial group; education history, including field of degrees; sources of graduate student support; employment status during the year preceding receipt of the doctorate; postgraduation plans; and background on parents'

Table B-1. Percent of bachelor's and master's degree data that were imputed, by race ethnicity of recipient: 1995

Race/ethnicity	Bachelor's	Master's
White	0.9%	0.7%
Black	2.2	1.7
Hispanic	0.7	0.6
Asian	0.7	1.5
American Indian	0.8	0.5
Nonresident alien	1.4	0.7
Unknown	2.6	2.5

SOURCE: NCES, IPEDS Completions file, 1995.

[1] Broad field level refers to the 2-digit program levels in U.S. Department of Education, National Center for Education Statistics, *Classification of Instructional Programs* (Washington, DC: GPO, 1991).

education. Approximately 92–95 percent of the doctorate recipients complete and return the survey forms. For nonrespondents, commencement programs constituted a source of skeletal information that was added to the file. These variables were sex, field of study, institution, year of doctorate, and educational background. Non-response for race/ethnicity is not imputed for individuals, but the percent unknown has been low. Since changes in non-response do exist, small changes in numbers should be interpreted with caution. Data are updated annually from completed survey forms submitted belatedly by previous nonrespondents, so numbers may change slightly in the future updates.

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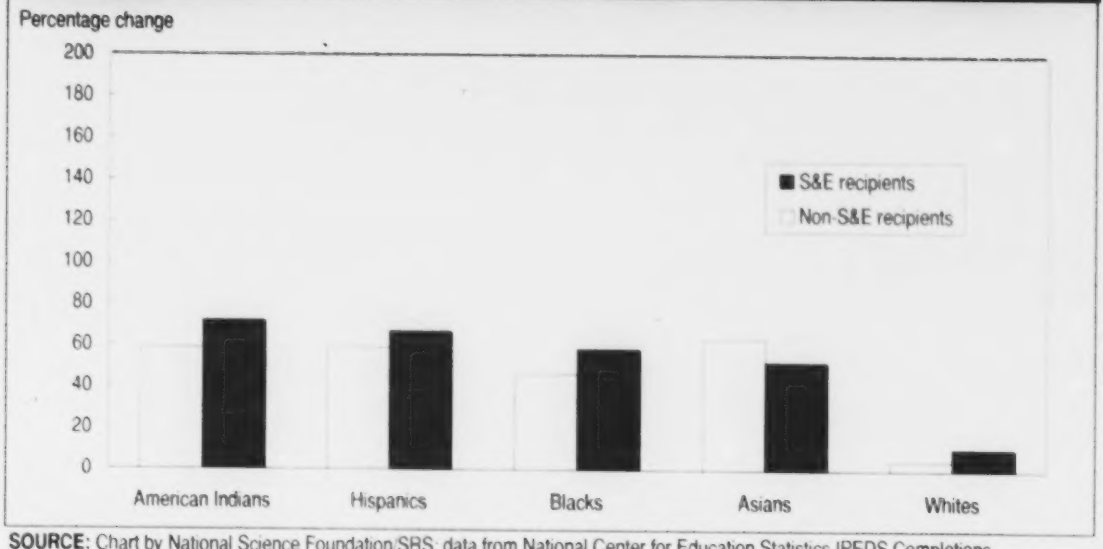
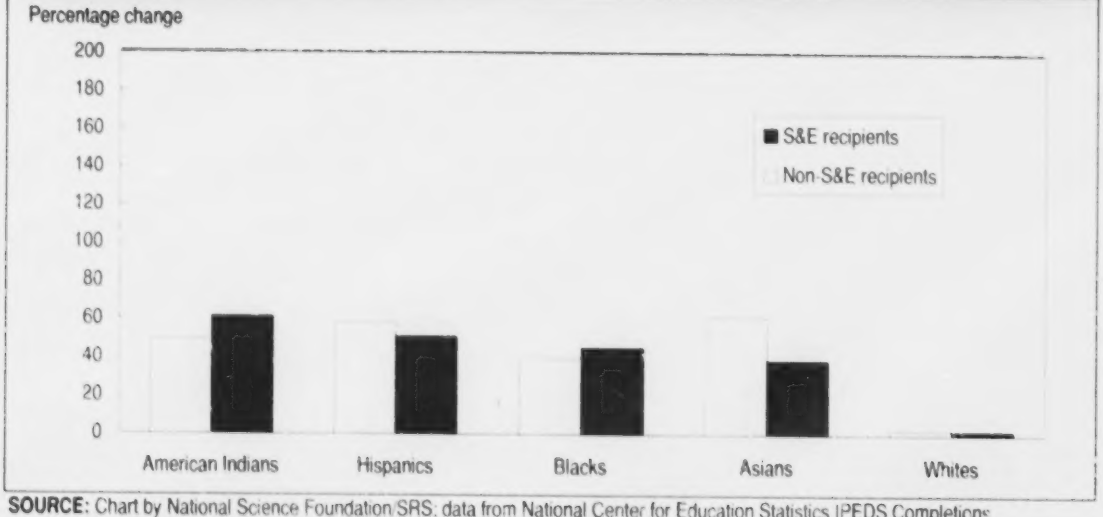


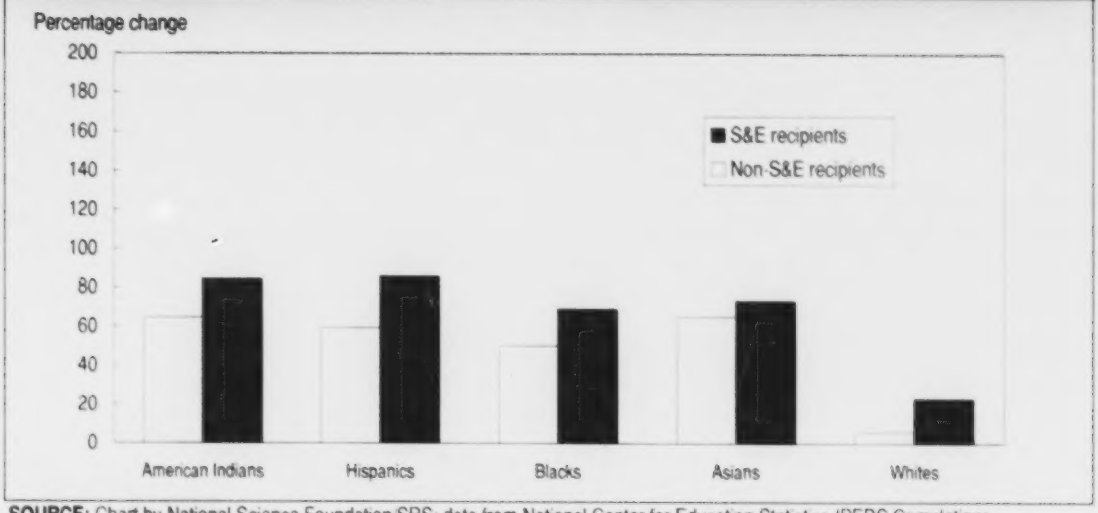
SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

Chart C-2. Percentage change in science and engineering (S&E) and non-S&E bachelor s degrees awarded to men, by race ethnicity: 1989–95



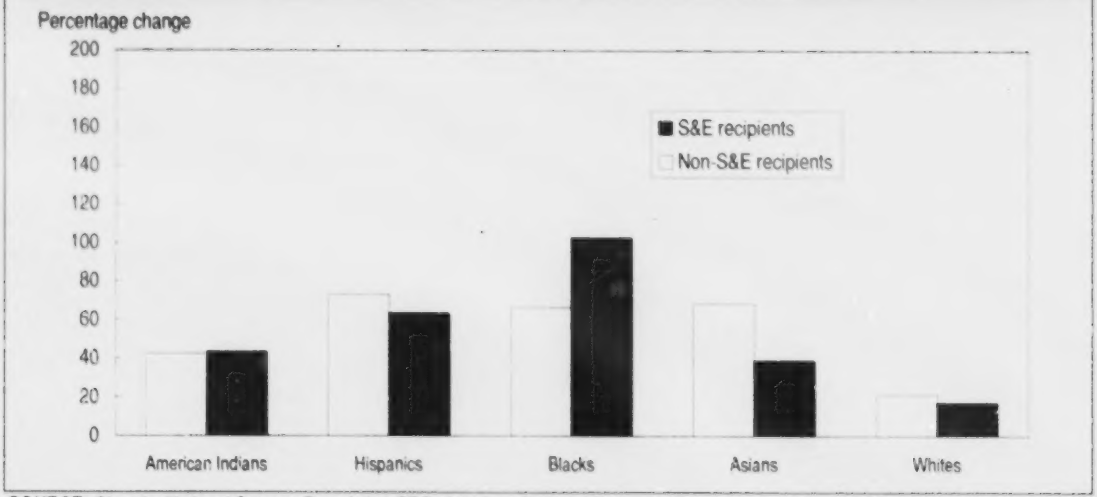
SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

Chart C-3. Percentage change in science and engineering (S&E) and non-S&E bachelor's degrees awarded to women, by race ethnicity: 1989–95



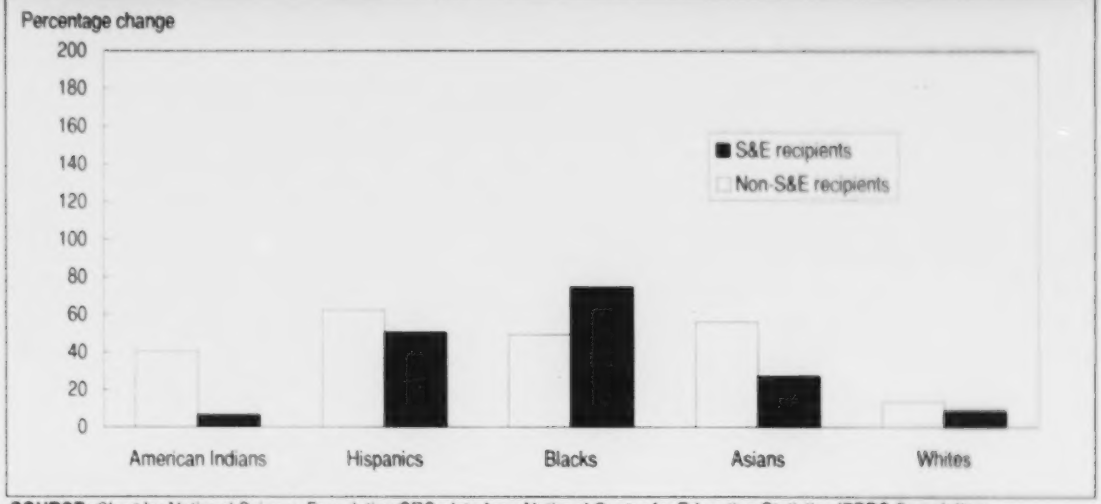
SOURCE: Chart by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

Chart C-4. Percentage change in science and engineering (S&E) and non-S&E master's degrees, by race ethnicity: 1989–95



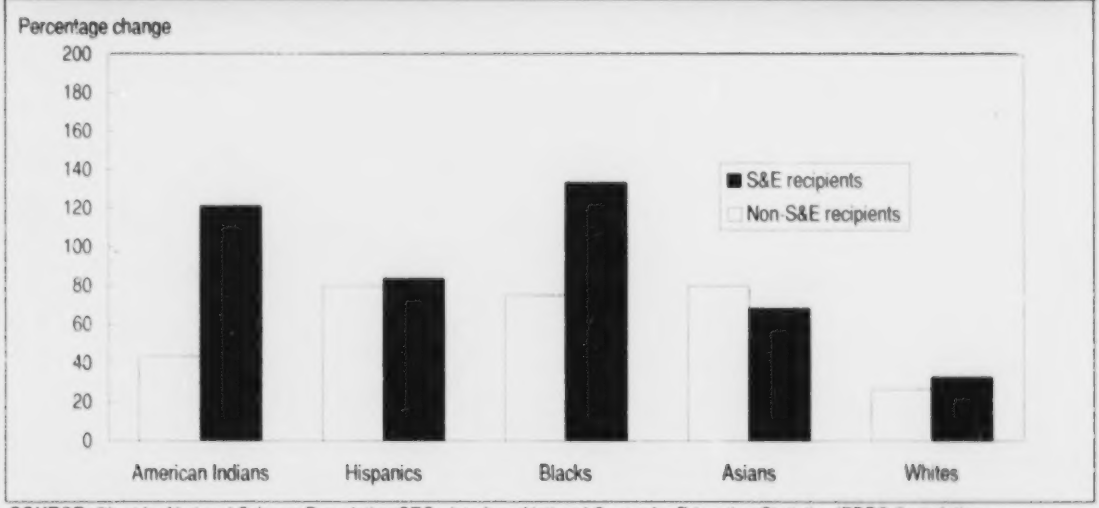
SOURCE: Chart by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

Chart C-5. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to men, by race ethnicity: 1989–95



SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

Chart C-6. Percentage change in science and engineering (S&E) and non-S&E master's degrees awarded to women, by race ethnicity: 1989–95



SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

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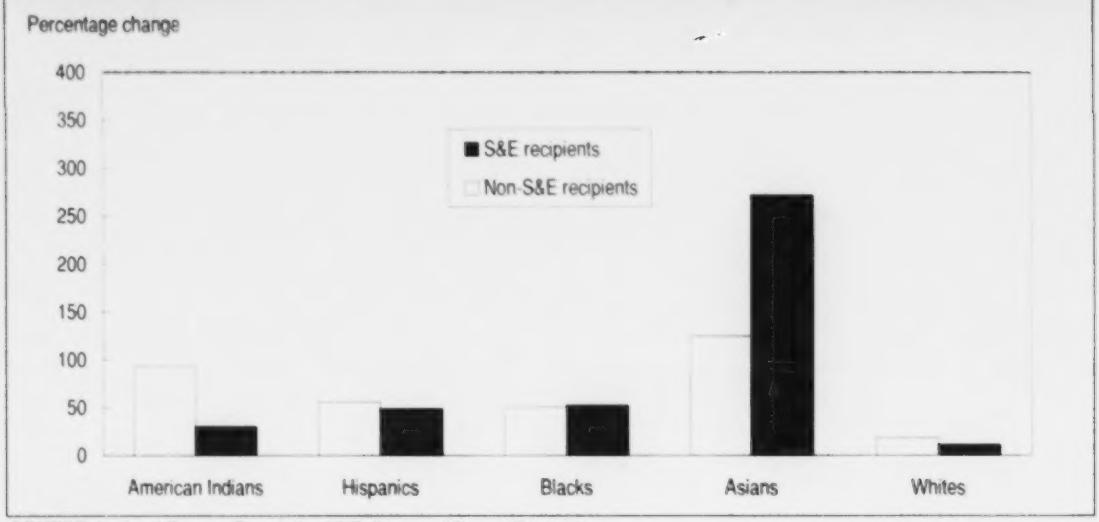
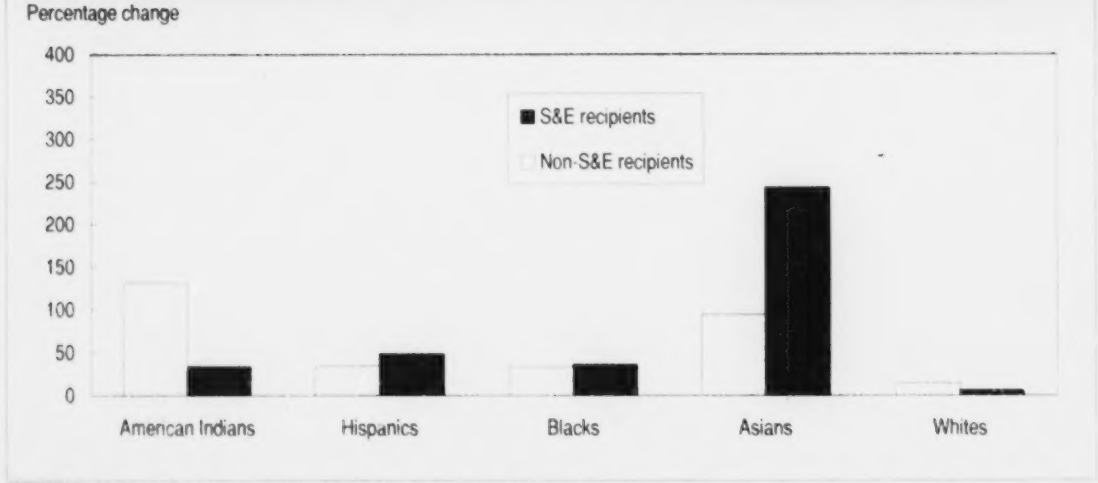
Chart C-7. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees, by race ethnicity: 1989–95



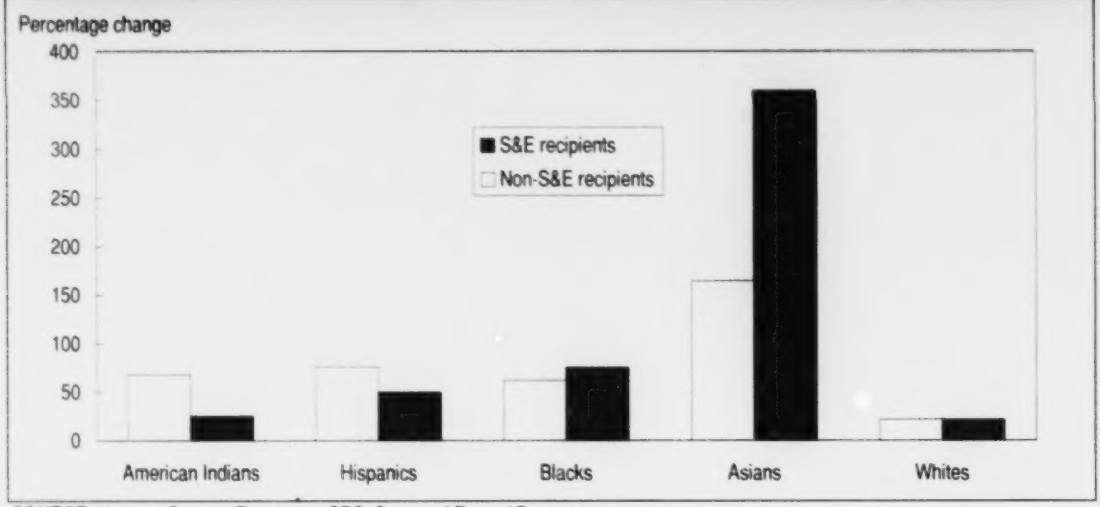
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart C-8. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees awarded to men, by race ethnicity: 1989–95



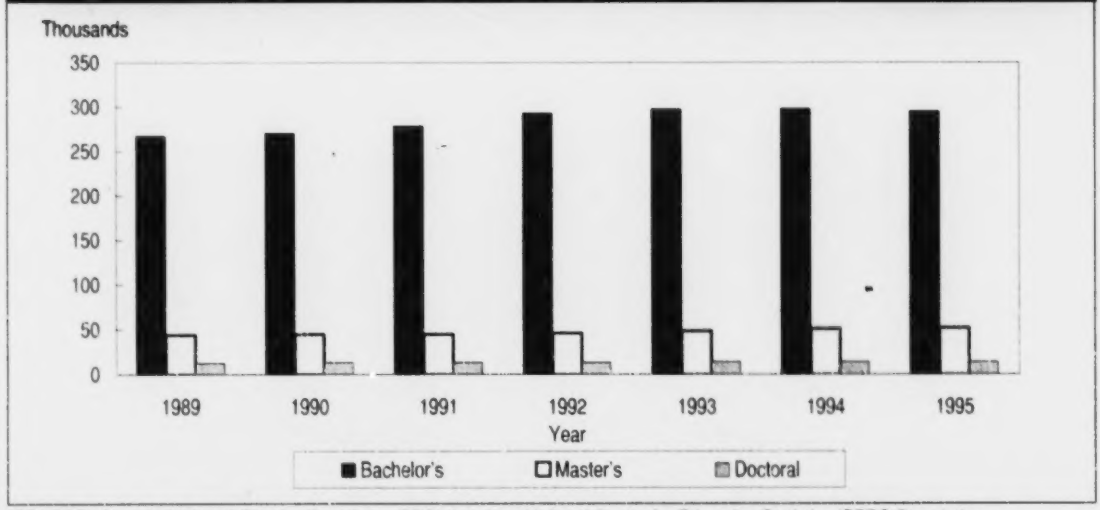
SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart C-9. Percentage change in science and engineering (S&E) and non-S&E doctoral degrees awarded to women, by race ethnicity: 1989–95



SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart C-10. Number of earned science and engineering degrees awarded to whites, by degree level: 1989–95



SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

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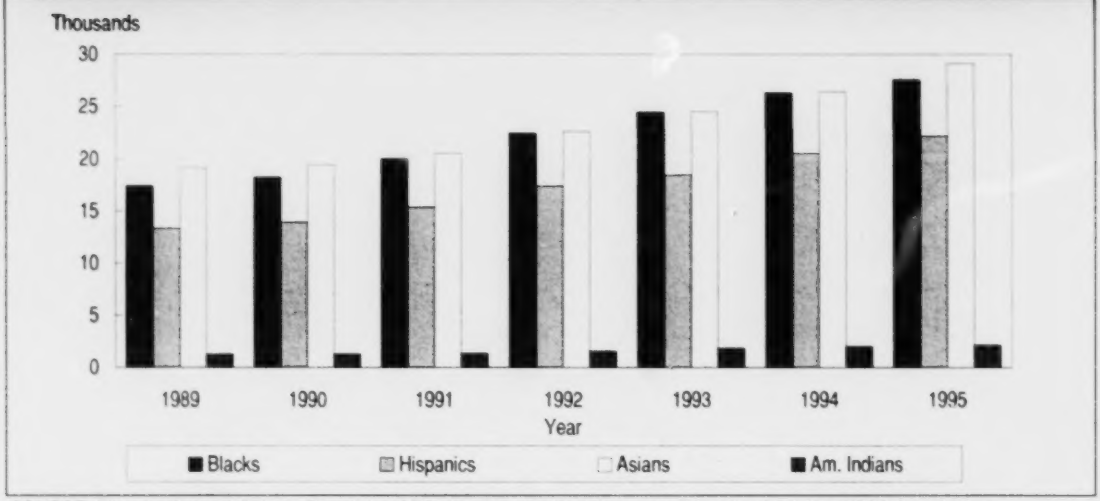
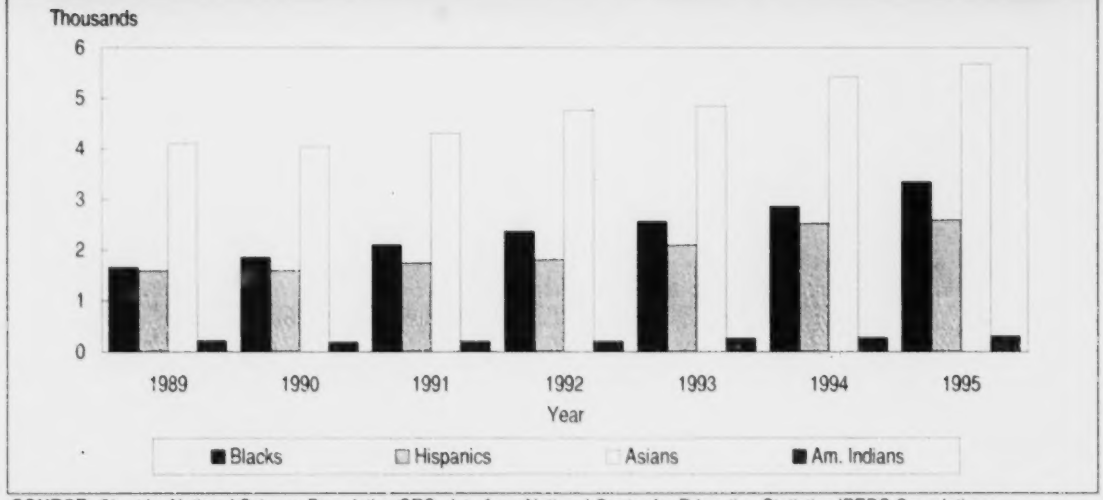
Chart C-11. Number of earned science and engineering bachelor's degrees awarded to minority groups: 1989-95



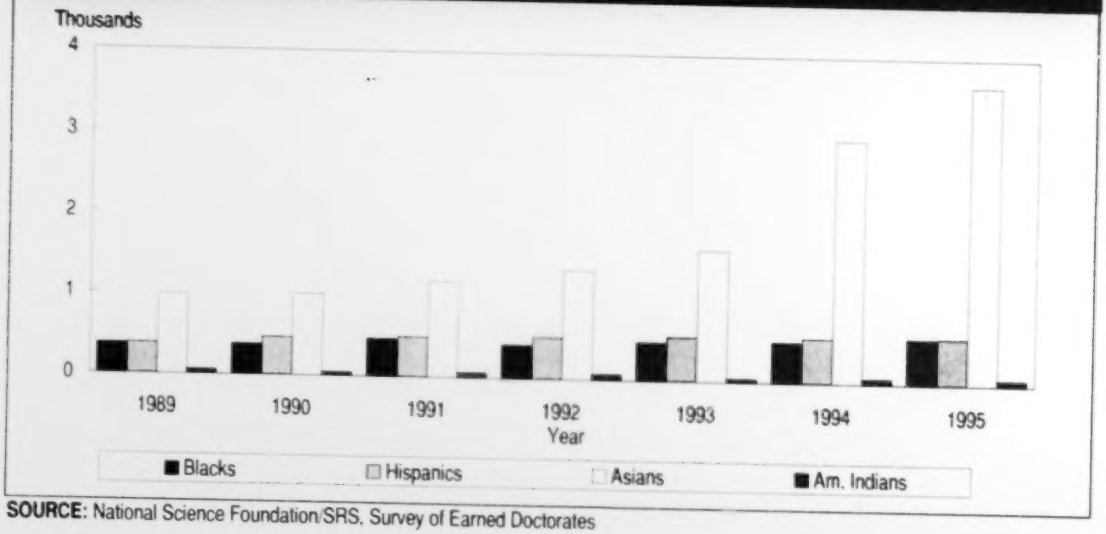
SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

Chart C-12. Number of earned science and engineering master's degrees awarded to minority groups: 1989–95



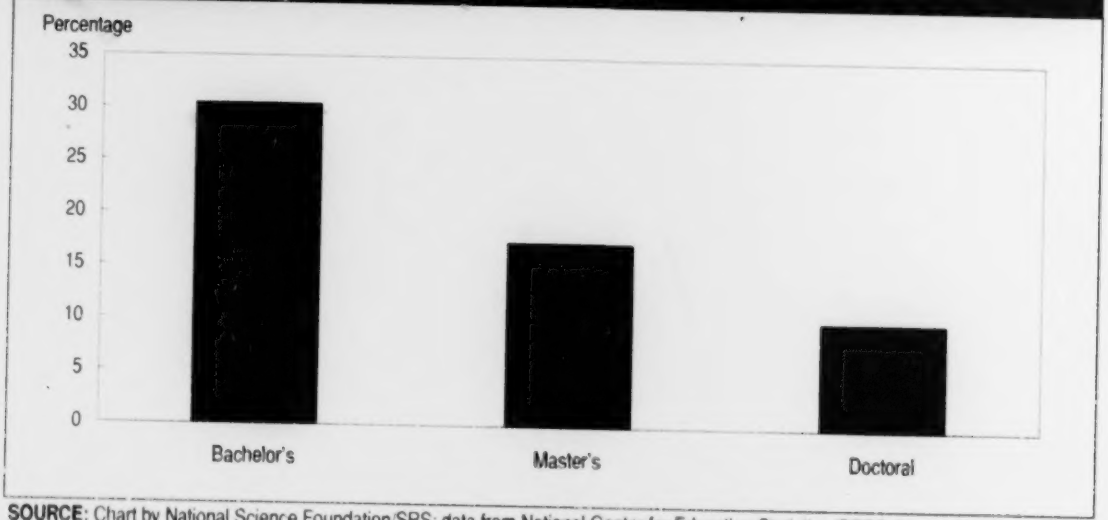
SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95

Chart C-13. Number of earned science and engineering doctoral degrees awarded to minority groups: 1989–95



SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Chart C-14. Percentage of blacks earning science and engineering degrees from historically black colleges and universities, by degree level: 1995



SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989–95; and NSF/SRS, Survey of Earned Doctorates

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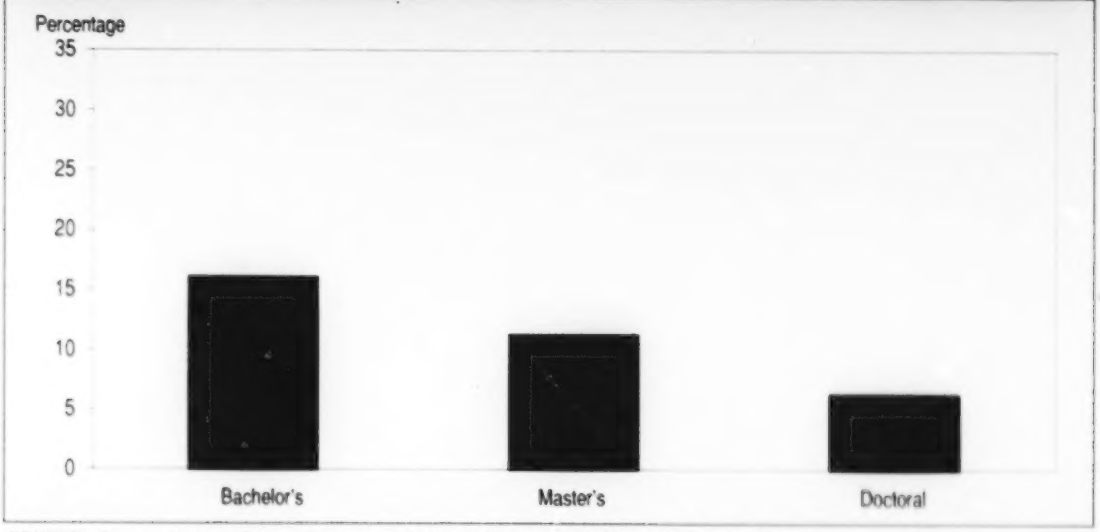
Chart 15. Percentage of Hispanics earning science and engineering degrees from institutions in Puerto Rico, by degree level: 1995



SOURCE: Chart by National Science Foundation/SRS; data from National Center for Education Statistics, IPEDS Completions Survey, 1987-94; doctoral data from NSF/SRS Survey of Earned Doctorates

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Table 1. Percentage distribution of earned bachelor's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	96.3	96.4	96.4	96.8	96.4	96.5	96.3
White, non-Hispanics	79.1	78.1	78.0	77.6	76.5	75.3	73.7
Asians	5.7	5.6	5.8	6.0	6.3	6.7	7.3
Underrepresented minorities, total	9.5	9.7	10.3	11.0	11.5	12.3	13.0
Black, non-Hispanics	5.2	5.3	5.6	6.0	6.3	6.6	6.9
Hispanics	3.9	4.0	4.3	4.6	4.7	5.2	5.6
American Indians or Alaskan Natives	.4	.4	.4	.4	.5	.5	.5
U.S. citizens and permanent residents, unknown race/ethnicity	2.1	3.0	2.4	2.1	2.1	2.2	2.3
Nonresident aliens[2]	3.7	3.6	3.6	3.2	3.6	3.5	3.7
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	95.4	95.5	95.5	96.0	95.6	95.6	95.4
White, non-Hispanics	79.8	78.9	78.8	78.5	77.5	76.3	74.8
Asians	5.8	5.8	5.9	6.3	6.6	6.9	7.4
Underrepresented minorities, total	7.9	8.0	8.5	9.0	9.4	10.2	10.8
Black, non-Hispanics	3.9	3.9	4.2	4.5	4.7	5.0	5.1
Hispanics	3.7	3.7	3.9	4.2	4.3	4.7	5.1
American Indians or Alaskan Natives	.3	.3	.3	.4	.4	.5	.5
U.S. citizens and permanent residents, unknown race/ethnicity	1.9	2.9	2.4	2.2	2.2	2.2	2.4
Nonresident aliens[2]	4.6	4.5	4.5	4.0	4.4	4.4	4.6
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	97.6	97.7	97.6	97.7	97.5	97.5	97.4
White, non-Hispanics	78.1	77.2	77.0	76.6	75.3	74.0	72.4
Asians	5.5	5.4	5.5	5.6	6.0	6.4	7.1
Underrepresented minorities, total	11.7	12.0	12.7	13.4	14.1	15.0	15.6
Black, non-Hispanics	7.0	7.1	7.4	7.8	8.2	8.7	8.9
Hispanics	4.3	4.4	4.8	5.2	5.3	5.8	6.1
American Indians or Alaskan Natives	.4	.4	.4	.5	.5	.6	.6
U.S. citizens and permanent residents, unknown race/ethnicity	2.4	3.1	2.4	2.1	2.1	2.1	2.3
Nonresident aliens[2]	2.4	2.3	2.4	2.3	2.5	2.5	2.6

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Details may not sum to totals due to rounding.

Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 2. Percentage distribution of earned master's degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	78.5	77.4	76.6	76.4	75.3	75.7	75.9
White, non-Hispanics	62.5	61.5	61.1	59.9	58.9	58.9	58.1
Asians	5.8	5.6	5.9	6.3	6.0	6.3	6.4
Underrepresented minorities, total	4.9	5.0	5.5	5.7	6.0	6.5	7.0
Black, non-Hispanics	2.3	2.6	2.9	3.1	3.1	3.3	3.8
Hispanics	2.3	2.2	2.4	2.4	2.6	2.9	2.9
American Indians or Alaskan Natives	.3	.3	.3	.3	.3	.3	.3
U.S. citizens and permanent residents, unknown race/ethnicity	5.3	5.2	4.0	4.5	4.4	4.0	4.3
Nonresident aliens[2]	21.5	22.6	23.4	23.6	24.7	24.3	24.1
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	74.8	73.8	72.6	72.5	71.1	71.6	71.3
White, non-Hispanics	58.9	58.3	57.9	56.5	55.5	55.6	54.6
Asians	6.2	5.8	6.2	6.6	6.1	6.4	6.7
Underrepresented minorities, total	4.2	4.1	4.5	4.7	5.0	5.3	5.6
Black, non-Hispanics	1.8	2.0	2.2	2.3	2.4	2.5	2.7
Hispanics	2.0	2.0	2.1	2.1	2.4	2.6	2.6
American Indians or Alaskan Natives	.3	.2	.2	.2	.2	.3	.3
U.S. citizens and permanent residents, unknown race/ethnicity	5.5	5.5	4.1	4.7	4.5	4.2	4.4
Nonresident aliens[2]	25.2	26.2	27.4	27.5	28.9	28.4	28.7
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	86.3	84.7	84.2	83.7	83.1	83.3	83.8
White, non-Hispanics	70.0	68.1	67.3	66.4	65.3	64.9	64.2
Asians	5.1	5.3	5.4	5.6	5.7	6.1	6.0
Underrepresented minorities, total	6.4	6.8	7.6	7.6	8.0	8.7	9.4
Black, non-Hispanics	3.4	3.8	4.2	4.5	4.6	4.8	5.5
Hispanics	2.7	2.6	3.0	2.8	3.0	3.6	3.5
American Indians or Alaskan Natives	.3	.4	.4	.3	.4	.4	.5
U.S. citizens and permanent residents, unknown race/ethnicity	4.7	4.6	3.9	4.1	4.2	3.6	4.1
Nonresident aliens[2]	13.7	15.3	15.8	16.3	16.9	16.7	16.2

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTES: Details may not sum to totals due to rounding.

Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 3. Percentage distribution of earned doctoral degrees in science and engineering, by citizenship, race/ethnicity, and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	67.1	67.2	66.2	64.6	65.1	69.4	71.5
White, non-Hispanics	57.5	57.6	55.5	54.0	54.0	53.0	52.3
Asians	4.5	4.4	4.9	5.4	6.3	11.4	13.8
Underrepresented minorities, total	3.7	3.9	4.2	4.0	4.1	4.2	4.5
Black, non-Hispanics	1.7	1.6	1.9	1.6	1.8	1.9	2.1
Hispanics	1.8	2.0	2.0	2.1	2.1	2.1	2.1
American Indians or Alaskan Natives	.2	.2	.2	.3	.2	.2	.3
U.S. citizens and permanent residents, unknown race/ethnicity	1.4	1.3	1.7	1.1	.7	.8	.8
Nonresident aliens[2]	24.8	28.7	31.8	32.8	31.9	28.7	26.4
Citizenship unknown	8.0	4.1	1.9	2.6	3.0	1.9	2.1
	Men						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	61.9	61.7	60.4	58.9	59.3	63.9	66.2
White, non-Hispanics	52.6	52.4	50.2	49.0	49.0	47.8	47.5
Asians	4.8	4.6	4.7	5.3	6.1	11.9	14.0
Underrepresented minorities, total	3.0	3.3	3.6	3.3	3.4	3.5	3.7
Black, non-Hispanics	1.4	1.4	1.6	1.3	1.5	1.5	1.6
Hispanics	1.5	1.8	1.8	1.8	1.8	1.7	1.8
American Indians or Alaskan Natives	.2	.2	.2	.2	.1	.2	.2
U.S. citizens and permanent residents, unknown race/ethnicity	1.5	1.4	1.8	1.3	.8	.8	.9
Nonresident aliens[2]	29.5	33.9	37.5	38.3	37.4	33.9	31.5
Citizenship unknown	8.6	4.4	2.1	2.8	3.3	2.1	2.3
	Women						
Total, all recipients	100.0	100.0	100.0	100.0	100.0	100.0	100.0
U.S. citizens and permanent residents, total[1]	80.6	81.3	80.7	78.8	78.7	82.0	83.3
White, non-Hispanics	70.2	71.0	68.4	66.4	65.5	65.1	63.0
Asians	3.9	4.0	5.4	5.9	6.9	10.4	13.4
Underrepresented minorities, total	5.4	5.4	5.7	5.7	5.9	5.9	6.3
Black, non-Hispanics	2.5	2.3	2.8	2.4	2.7	2.7	3.2
Hispanics	2.5	2.8	2.7	2.9	2.9	2.9	2.8
American Indians or Alaskan Natives	.3	.3	.3	.4	.2	.3	.3
U.S. citizens and permanent residents, unknown race/ethnicity	1.0	1.0	1.2	.8	.4	.6	.6
Nonresident aliens[2]	12.8	15.4	17.7	19.1	19.0	16.7	15.1
Citizenship unknown	6.6	3.3	1.5	2.1	2.3	1.3	1.6

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: Details may not sum to totals due to rounding.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	337,431	345,793	356,785	376,933	388,435	395,380	399,809
Engineering	66,947	64,703	62,186	61,898	62,670	62,962	63,330
Sciences	270,484	281,090	294,599	315,035	325,765	332,418	336,479
Natural sciences	109,350	105,234	105,595	111,108	116,742	122,792	129,447
Physical science[1]	17,329	16,203	16,407	17,076	17,691	18,525	19,375
Mathematical science	15,314	14,674	14,784	14,851	14,870	14,431	13,759
Computer science	30,963	27,695	25,410	24,854	24,477	24,458	24,662
Biological science	36,949	38,040	40,351	43,835	47,877	52,213	56,804
Agricultural science	8,795	8,622	8,643	10,492	11,827	13,165	14,847
Social sciences	161,134	175,856	189,004	203,927	209,023	209,626	207,032
Social science	112,180	121,838	130,111	139,884	141,772	139,858	134,431
Psychology	48,954	54,018	58,893	64,043	67,251	69,768	72,601
Non-S&E[2]	692,740	716,358	751,212	773,139	790,843	787,761	774,627
Grand total	1,030,171	1,062,151	1,107,997	1,150,072	1,179,278	1,183,141	1,174,436
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	325,108	333,475	344,061	364,695	374,633	381,451	385,055
Engineering	61,875	59,786	57,604	57,675	58,165	58,422	58,520
Sciences	263,233	273,689	286,457	307,020	316,468	323,029	326,535
Natural sciences	104,928	100,908	101,039	106,739	111,656	117,843	124,297
Physical science[1]	16,724	15,608	15,799	16,469	16,927	17,812	18,652
Mathematical science	14,771	14,150	14,206	14,259	14,318	13,869	13,166
Computer science	28,828	25,629	23,373	22,880	22,273	22,185	22,367
Biological science	36,076	37,173	39,288	42,842	46,660	51,058	55,523
Agricultural science	8,529	8,348	8,373	10,289	11,478	12,919	14,589
Social sciences	158,305	172,781	185,418	200,281	204,812	205,186	202,238
Social science	109,862	119,288	127,216	136,902	138,391	136,273	130,579
Psychology	48,443	53,493	58,202	63,379	66,421	68,913	71,659
Non-S&E[2]	678,606	702,123	734,279	756,830	772,274	767,463	752,369
Grand total	1,003,714	1,035,598	1,078,340	1,121,525	1,146,907	1,148,914	1,137,424
	White, non-Hispanics						
Total science and engineering	266,862	270,225	278,190	292,614	297,171	297,616	294,773
Engineering	50,081	47,494	45,162	45,026	44,853	44,687	43,726
Sciences	216,781	222,731	233,028	247,588	252,318	252,929	251,047
Natural sciences	84,578	80,210	80,111	84,133	87,401	91,196	94,575
Physical science[1]	14,238	13,055	13,145	13,678	13,941	14,616	14,952
Mathematical science	12,287	11,765	11,649	11,723	11,669	11,089	10,343
Computer science	21,711	18,918	17,349	16,844	16,155	15,816	15,532
Biological science	28,404	28,814	30,264	32,506	35,080	37,942	40,628
Agricultural science	7,938	7,658	7,704	9,382	10,556	11,733	13,120
Social sciences	132,203	142,521	152,917	163,455	164,917	161,733	156,472
Social science	91,697	98,385	104,783	111,389	111,154	106,863	100,558
Psychology	40,506	44,136	48,134	52,066	53,763	54,870	55,914
Non-S&E[2]	570,464	586,461	614,173	628,839	634,432	620,508	598,012
Grand total	840,326	856,686	892,363	921,453	931,603	918,124	892,785

See explanatory information and SOURCE at end of table.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	19,138	19,437	20,552	22,635	24,504	26,420	29,128
Engineering	6,075	6,012	6,220	6,265	6,407	6,516	6,785
Sciences	13,063	13,425	14,332	16,370	18,097	19,904	22,343
Natural sciences	7,260	7,326	7,595	8,496	9,524	10,401	12,007
Physical science[1]	922	937	983	1,001	1,098	1,096	1,347
Mathematical science	1,019	874	915	857	915	926	965
Computer science	2,268	2,144	2,010	2,082	2,245	2,247	2,365
Biological science	2,907	3,245	3,559	4,402	5,103	5,959	7,043
Agricultural science	144	126	128	154	163	173	287
Social sciences	5,803	6,099	6,737	7,874	8,573	9,503	10,336
Social science	4,228	4,469	4,852	5,724	6,035	6,726	7,005
Psychology	1,575	1,630	1,885	2,150	2,538	2,777	3,331
Non-S&E[2]	18,435	18,590	21,173	23,981	26,083	28,255	30,167
Grand total	37,573	38,027	41,725	46,616	50,587	54,675	59,295
	Underrepresented minorities, total						
Total science and engineering	31,950	33,419	36,682	41,383	44,682	48,822	51,844
Engineering	4,805	4,729	4,953	5,277	5,714	6,020	6,717
Sciences	27,145	28,690	31,729	36,106	38,968	42,802	45,127
Natural sciences	10,830	10,530	10,960	11,722	12,510	13,782	14,815
Physical science[1]	1,322	1,245	1,355	1,425	1,528	1,737	1,932
Mathematical science	1,218	1,178	1,334	1,432	1,490	1,594	1,589
Computer science	3,742	3,416	3,292	3,342	3,390	3,611	3,915
Biological science	4,151	4,243	4,551	5,043	5,602	6,127	6,606
Agricultural science	397	448	428	480	500	713	773
Social sciences	16,315	18,160	20,769	24,384	26,458	29,020	30,312
Social science	11,212	12,394	14,100	16,647	17,918	19,400	19,621
Psychology	5,103	5,766	6,669	7,737	8,540	9,620	10,691
Non-S&E[2]	70,215	73,958	81,840	88,065	95,404	102,241	106,588
Grand total	102,165	107,377	118,522	129,448	140,086	151,063	158,432
	Black, non-Hispanics						
Total science and engineering	17,385	18,230	19,987	22,431	24,421	26,289	27,528
Engineering	2,067	2,072	2,229	2,362	2,577	2,659	2,845
Sciences	15,318	16,158	17,758	20,069	21,844	23,630	24,683
Natural sciences	6,005	5,782	5,834	6,401	6,972	7,559	8,021
Physical science[1]	697	650	753	816	836	921	1,034
Mathematical science	792	720	811	904	965	992	995
Computer science	2,457	2,247	1,997	2,090	2,213	2,398	2,498
Biological science	1,916	1,994	2,111	2,385	2,739	2,980	3,231
Agricultural science	143	171	162	206	219	268	263
Social sciences	9,313	10,376	11,924	13,668	14,872	16,071	16,662
Social science	6,570	7,226	8,236	9,489	10,254	10,835	10,921
Psychology	2,743	3,150	3,688	4,179	4,618	5,236	5,741
Non-S&E[2]	39,452	41,071	45,022	48,880	52,246	56,027	57,759
Grand total	56,837	59,301	65,009	71,311	76,667	82,316	85,287

See explanatory information and SOURCE at end of table.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	13,327	13,918	15,351	17,391	18,442	20,529	22,190
Engineering	2,561	2,511	2,566	2,733	2,961	3,143	3,651
Sciences	10,766	11,407	12,785	14,658	15,481	17,386	18,539
Natural sciences	4,417	4,357	4,705	4,892	5,034	5,648	6,119
Physical science[1]	563	522	533	546	599	733	800
Mathematical science	373	413	480	482	470	543	536
Computer science	1,195	1,085	1,215	1,173	1,096	1,135	1,307
Biological science	2,090	2,119	2,264	2,477	2,652	2,901	3,090
Agricultural science	196	218	213	214	217	336	386
Social sciences	6,349	7,050	8,080	9,766	10,447	11,738	12,420
Social science	4,197	4,645	5,334	6,519	6,860	7,748	7,877
Psychology	2,152	2,405	2,746	3,247	3,587	3,990	4,543
Non-S&E[2]	28,034	29,946	33,676	35,616	39,403	42,154	44,501
Grand total	41,361	43,864	49,027	53,007	57,845	62,683	66,691
	American Indians or Alaskan Natives						
Total science and engineering	1,238	1,271	1,344	1,561	1,819	2,004	2,126
Engineering	177	146	158	182	176	218	221
Sciences	1,061	1,125	1,186	1,379	1,643	1,786	1,905
Natural sciences	408	391	421	429	504	575	675
Physical science[1]	62	73	69	63	93	83	98
Mathematical science	53	45	43	46	55	59	58
Computer science	90	84	80	79	81	78	110
Biological science	145	130	176	181	211	246	285
Agricultural science	58	59	53	60	64	109	124
Social sciences	653	734	765	950	1,139	1,211	1,230
Social science	445	523	530	639	804	817	823
Psychology	208	211	235	311	335	394	407
Non-S&E[2]	2,729	2,941	3,142	3,569	3,755	4,060	4,328
Grand total	3,967	4,212	4,486	5,130	5,574	6,064	6,454
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	7,158	10,394	8,637	8,063	8,276	8,593	9,310
Engineering	914	1,551	1,269	1,107	1,191	1,199	1,292
Sciences	6,244	8,843	7,368	6,956	7,085	7,394	8,018
Natural sciences	2,260	2,842	2,373	2,388	2,221	2,464	2,900
Physical science[1]	242	371	316	365	360	363	421
Mathematical science	247	333	308	247	244	260	269
Computer science	1,107	1,151	722	612	483	511	555
Biological science	614	871	914	891	875	1,030	1,246
Agricultural science	50	116	113	273	259	300	409
Social sciences	3,984	6,001	4,995	4,568	4,864	4,930	5,118
Social science	2,725	4,040	3,481	3,142	3,284	3,284	3,395
Psychology	1,259	1,961	1,514	1,426	1,580	1,646	1,723
Non-S&E[2]	16,492	23,114	17,093	15,945	16,355	16,459	17,602
Grand total	23,650	33,508	25,730	24,008	24,631	25,052	26,912

See explanatory information and SOURCE at end of table.

Table 4. Number of earned bachelor's degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	12,323	12,318	12,724	12,238	13,802	13,929	14,754
Engineering	5,072	4,917	4,582	4,223	4,505	4,540	4,810
Sciences	7,251	7,401	8,142	8,015	9,297	9,389	9,944
Natural sciences	4,422	4,326	4,556	4,369	5,086	4,949	5,150
Physical science [1]	605	595	608	607	764	713	723
Mathematical science	543	524	578	592	552	562	593
Computer science	2,135	2,066	2,037	1,974	2,204	2,273	2,295
Biological science	873	867	1,063	993	1,217	1,155	1,281
Agricultural science	266	274	270	203	349	246	258
Social sciences	2,829	3,075	3,586	3,646	4,211	4,440	4,794
Social science	2,318	2,550	2,895	2,982	3,381	3,585	3,852
Psychology	511	525	691	664	830	855	942
Non-S&E [2]	14,134	14,235	16,933	16,309	18,569	20,298	22,258
Grand total	26,457	26,553	29,657	28,547	32,371	34,227	37,012

1. In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2. Non-S&E refers to non-science and non-engineering.

3. Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

4. Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTE: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

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Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	198,728	199,916	201,499	209,270	214,388	216,492	216,078
Engineering	56,759	54,730	52,522	52,270	52,696	52,569	52,389
Sciences	141,969	145,186	148,977	157,000	161,692	163,923	163,689
Natural sciences	65,875	62,518	62,091	64,678	67,855	70,956	73,593
Physical science [1]	12,157	11,109	11,199	11,466	11,877	12,253	12,559
Mathematical science	8,264	7,863	7,804	7,923	7,859	7,754	7,318
Computer science	21,418	19,321	17,896	17,670	17,565	17,466	17,628
Biological science	18,295	18,631	19,715	21,107	23,111	25,314	26,956
Agricultural science	5,741	5,594	5,477	6,512	7,443	8,169	9,132
Social sciences	76,094	82,668	86,886	92,322	93,837	92,967	90,096
Social science	61,803	67,269	70,731	75,185	75,808	74,218	70,458
Psychology	14,291	15,399	16,155	17,137	18,029	18,749	19,638
Non-S&E [2]	288,838	295,951	307,453	316,125	323,148	320,569	315,068
Grand total	487,566	495,867	508,952	525,395	537,536	537,061	531,146
	U.S. citizens and permanent residents, total [3]						
Total science and engineering	189,685	190,980	192,516	200,929	204,994	207,030	206,144
Engineering	52,160	50,303	48,410	48,518	48,655	48,577	48,145
Sciences	137,525	140,677	144,106	152,411	156,339	158,453	157,999
Natural sciences	62,973	59,662	59,096	61,872	64,584	67,726	70,302
Physical science [1]	11,751	10,694	10,788	11,049	11,352	11,786	12,086
Mathematical science	7,917	7,539	7,430	7,565	7,514	7,390	6,960
Computer science	19,901	17,849	16,433	16,251	15,964	15,799	15,960
Biological science	17,869	18,200	19,171	20,628	22,542	24,739	26,334
Agricultural science	5,535	5,380	5,274	6,379	7,212	8,012	8,962
Social sciences	74,552	81,015	85,010	90,539	91,755	90,727	87,697
Social science	60,431	65,776	69,033	73,577	73,946	72,185	68,291
Psychology	14,121	15,239	15,977	16,962	17,809	18,542	19,406
Non-S&E [2]	280,764	287,979	298,209	307,360	313,490	310,288	303,886
Grand total	470,449	478,959	490,725	508,289	518,484	517,318	510,030
	White, non-Hispanics						
Total science and engineering	158,590	157,675	158,687	164,220	166,063	165,245	161,731
Engineering	42,779	40,533	38,692	38,513	38,244	37,830	36,785
Sciences	115,811	117,142	119,995	125,707	127,819	127,415	124,946
Natural sciences	52,132	48,848	48,304	50,126	52,048	54,115	55,197
Physical science [1]	10,173	9,179	9,203	9,430	9,614	9,958	10,006
Mathematical science	6,598	6,253	6,119	6,255	6,131	5,920	5,456
Computer science	15,799	13,974	12,916	12,571	12,329	12,022	11,793
Biological science	14,377	14,488	15,174	16,030	17,293	18,882	19,790
Agricultural science	5,185	4,954	4,892	5,840	6,681	7,333	8,152
Social sciences	63,679	68,294	71,691	75,581	75,771	73,300	69,749
Social science	51,766	55,662	58,414	61,574	61,269	58,409	54,508
Psychology	11,913	12,632	13,277	14,007	14,502	14,891	15,241
Non-S&E [2]	239,962	243,349	252,058	258,297	261,177	254,966	245,424
Grand total	398,552	401,024	410,745	422,517	427,240	420,211	407,155

See explanatory information and SOURCE at end of table

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	11,578	11,528	11,942	13,198	14,132	14,967	16,039
Engineering	4,936	4,827	4,969	5,067	5,130	5,235	5,340
Sciences	6,642	6,701	6,973	8,131	9,002	9,732	10,699
Natural sciences	4,073	4,054	4,149	4,783	5,380	5,721	6,483
Physical science[1]	626	592	606	615	675	648	784
Mathematical science	527	491	482	486	502	523	519
Computer science	1,420	1,335	1,268	1,373	1,492	1,476	1,583
Biological science	1,442	1,573	1,736	2,230	2,633	2,992	3,467
Agricultural science	58	63	57	79	78	82	130
Social sciences	2,569	2,647	2,824	3,348	3,622	4,011	4,216
Social science	2,065	2,156	2,260	2,728	2,884	3,204	3,247
Psychology	504	491	564	620	738	807	969
Non-S&E[2]	7,625	7,569	8,831	9,992	10,687	11,453	12,309
Grand total	19,203	19,097	20,773	23,190	24,819	26,420	28,348
	Underrepresented minorities, total						
Total science and engineering	15,672	15,954	17,027	18,890	20,160	22,001	23,235
Engineering	3,638	3,574	3,654	3,952	4,261	4,458	4,917
Sciences	12,034	12,380	13,373	14,938	15,899	17,543	18,318
Natural sciences	5,411	5,043	5,226	5,450	5,766	6,389	6,888
Physical science[1]	771	655	755	745	792	931	998
Mathematical science	636	614	657	675	744	786	820
Computer science	2,013	1,797	1,758	1,864	1,802	1,939	2,190
Biological science	1,734	1,685	1,799	1,885	2,130	2,337	2,449
Agricultural science	257	292	257	281	298	396	431
Social sciences	6,623	7,337	8,147	9,488	10,133	11,154	11,430
Social science	5,286	5,788	6,442	7,590	8,013	8,813	8,742
Psychology	1,337	1,549	1,705	1,898	2,120	2,341	2,688
Non-S&E[2]	25,978	27,093	29,887	31,805	34,440	36,527	38,307
Grand total	41,650	43,047	46,914	50,695	54,600	58,528	61,542
	Black, non-Hispanics						
Total science and engineering	7,685	7,830	8,448	9,375	10,099	10,806	11,127
Engineering	1,397	1,416	1,484	1,614	1,764	1,784	1,846
Sciences	6,288	6,414	6,964	7,761	8,335	9,022	9,281
Natural sciences	2,732	2,476	2,538	2,709	2,872	3,146	3,314
Physical science[1]	365	292	391	381	370	464	495
Mathematical science	374	342	380	374	444	457	476
Computer science	1,205	1,074	971	1,092	1,049	1,161	1,241
Biological science	700	658	696	749	883	927	981
Agricultural science	88	110	100	113	126	137	121
Social sciences	3,556	3,938	4,426	5,052	5,463	5,876	5,967
Social science	2,911	3,144	3,547	4,070	4,364	4,644	4,565
Psychology	645	794	879	982	1,099	1,232	1,402
Non-S&E[2]	14,228	14,760	15,790	17,143	18,275	19,300	19,871
Grand total	21,913	22,590	24,238	26,518	28,374	30,106	30,998

See explanatory information and SOURCE at end of table.

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	7,318	7,434	7,888	8,730	9,160	10,190	11,031
Engineering	2,100	2,035	2,039	2,187	2,355	2,495	2,895
Sciences	5,218	5,399	5,849	6,543	6,805	7,695	8,136
Natural sciences	2,432	2,328	2,458	2,497	2,608	2,925	3,196
Physical science[1]	362	311	318	326	361	415	437
Mathematical science	224	249	259	279	273	300	315
Computer science	750	669	738	724	700	719	876
Biological science	965	955	1,019	1,043	1,144	1,298	1,340
Agricultural science	131	144	124	125	130	193	228
Social sciences	2,786	3,071	3,391	4,046	4,197	4,770	4,940
Social science	2,153	2,384	2,634	3,220	3,269	3,774	3,774
Psychology	633	687	757	826	928	996	1,166
Non-S&E[2]	10,684	11,249	12,893	13,296	14,665	15,670	16,844
Grand total	18,002	18,683	20,781	22,026	23,825	25,860	27,875
	American Indians or Alaskan Natives						
Total science and engineering	669	690	691	785	901	1,005	1,077
Engineering	141	123	131	151	142	179	176
Sciences	528	567	560	634	759	826	901
Natural sciences	247	239	230	244	286	318	378
Physical science[1]	44	52	46	38	61	52	66
Mathematical science	38	23	18	22	27	29	29
Computer science	58	54	49	48	53	59	73
Biological science	69	72	84	93	103	112	128
Agricultural science	38	38	33	43	42	66	82
Social sciences	281	328	330	390	473	508	523
Social science	222	260	261	300	380	395	403
Psychology	59	68	69	90	93	113	120
Non-S&E[2]	1,066	1,084	1,204	1,366	1,500	1,557	1,592
Grand total	1,735	1,774	1,895	2,151	2,401	2,562	2,669
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	3,845	5,823	4,860	4,621	4,639	4,817	5,139
Engineering	807	1,369	1,095	986	1,020	1,054	1,103
Sciences	3,038	4,454	3,765	3,635	3,619	3,763	4,036
Natural sciences	1,357	1,717	1,417	1,513	1,390	1,501	1,734
Physical science[1]	181	268	224	259	271	249	298
Mathematical science	156	181	172	149	137	161	165
Computer science	669	743	491	443	341	362	394
Biological science	316	454	462	483	486	528	628
Agricultural science	35	71	68	179	155	201	249
Social sciences	1,681	2,737	2,348	2,122	2,229	2,262	2,302
Social science	1,314	2,170	1,917	1,685	1,780	1,759	1,794
Psychology	367	567	431	437	449	503	508
Non-S&E[2]	7,199	9,968	7,433	7,266	7,186	7,342	7,846
Grand total	11,044	15,791	12,293	11,887	11,825	12,159	12,985

See explanatory information and SOURCE at end of table.

Table 5. Number of earned bachelor's degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	9,043	8,936	8,983	8,341	9,394	9,462	9,934
Engineering	4,599	4,427	4,112	3,752	4,041	3,992	4,244
Sciences	4,444	4,509	4,871	4,589	5,353	5,470	5,690
Natural sciences	2,902	2,856	2,995	2,806	3,271	3,230	3,291
Physical science [1]	406	415	411	417	525	467	473
Mathematical science	347	324	374	358	345	364	358
Computer science	1,517	1,472	1,463	1,419	1,601	1,667	1,668
Biological science	426	431	544	479	569	575	622
Agricultural science	206	214	203	133	231	157	170
Social sciences	1,542	1,653	1,876	1,783	2,082	2,240	2,399
Social science	1,372	1,493	1,698	1,608	1,862	2,033	2,167
Psychology	170	160	178	175	220	207	232
Non-S&E [2]	8,074	7,972	9,244	8,765	9,658	10,281	11,182
Grand total	17,117	16,908	18,227	17,106	19,052	19,743	21,116

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

4 Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTE: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	138,703	145,877	155,286	167,663	174,047	178,888	183,731
Engineering	10,188	9,973	9,664	9,628	9,974	10,393	10,941
Sciences	128,515	135,904	145,622	158,035	164,073	168,495	172,790
Natural sciences	43,475	42,716	43,504	46,430	48,887	51,836	55,854
Physical science[1]	5,172	5,094	5,208	5,610	5,814	6,272	6,816
Mathematical science	7,050	6,811	6,980	6,928	7,011	6,677	6,441
Computer science	9,545	8,374	7,514	7,184	6,912	6,992	7,034
Biological science	18,654	19,409	20,636	22,728	24,766	26,899	29,848
Agricultural science	3,054	3,028	3,166	3,980	4,384	4,996	5,715
Social sciences	85,040	93,188	102,118	111,605	115,186	116,659	116,936
Social science	50,377	54,569	59,380	64,699	65,964	65,640	63,973
Psychology	34,663	38,619	42,738	46,906	49,222	51,019	52,963
Non-S&E[2]	403,902	420,407	443,759	457,014	467,695	467,192	459,559
Grand total	542,605	566,284	599,045	624,677	641,742	646,080	643,290
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	135,423	142,495	151,545	163,766	169,639	174,421	178,911
Engineering	9,715	9,483	9,194	9,157	9,510	9,845	10,375
Sciences	125,708	133,012	142,351	154,609	160,129	164,576	168,536
Natural sciences	41,955	41,246	41,943	44,867	47,072	50,117	53,995
Physical science[1]	4,973	4,914	5,011	5,420	5,575	6,026	6,566
Mathematical science	6,854	6,611	6,776	6,694	6,804	6,479	6,206
Computer science	8,927	7,780	6,940	6,629	6,309	6,386	6,407
Biological science	18,207	18,973	20,117	22,214	24,118	26,319	29,189
Agricultural science	2,994	2,968	3,099	3,910	4,266	4,907	5,627
Social sciences	83,753	91,766	100,408	109,742	113,057	114,459	114,541
Social science	49,431	53,512	58,183	63,325	64,445	64,088	62,288
Psychology	34,322	38,254	42,225	46,417	48,612	50,371	52,253
Non-S&E[2]	397,842	414,144	436,070	449,470	458,784	457,175	448,483
Grand total	533,265	556,639	587,615	613,236	628,423	631,596	627,394
	White, non-Hispanics						
Total science and engineering	108,272	112,550	119,503	128,394	131,108	132,371	133,042
Engineering	7,302	6,961	6,470	6,513	6,609	6,857	6,941
Sciences	100,970	105,589	113,033	121,881	124,499	125,514	126,101
Natural sciences	32,446	31,362	31,807	34,007	35,353	37,081	39,378
Physical science[1]	4,065	3,876	3,942	4,248	4,327	4,658	4,946
Mathematical science	5,689	5,512	5,530	5,468	5,538	5,169	4,887
Computer science	5,912	4,944	4,433	4,273	3,826	3,794	3,739
Biological science	14,027	14,326	15,090	16,476	17,787	19,060	20,838
Agricultural science	2,753	2,704	2,812	3,542	3,875	4,400	4,968
Social sciences	68,524	74,227	81,226	87,874	89,146	88,433	86,723
Social science	39,931	42,723	46,369	49,815	49,885	48,454	46,050
Psychology	28,593	31,504	34,857	38,059	39,261	39,979	40,673
Non-S&E[2]	333,502	343,112	362,115	370,542	373,255	365,542	352,588
Grand total	441,774	455,662	481,618	498,936	504,363	497,913	485,630

See explanatory information and SOURCE at end of table.

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	7,560	7,909	8,610	9,437	10,372	11,453	13,089
Engineering	1,139	1,185	1,251	1,198	1,277	1,281	1,445
Sciences	6,421	6,724	7,359	8,239	9,095	10,172	11,644
Natural sciences	3,187	3,272	3,446	3,713	4,144	4,680	5,524
Physical science[1]	296	345	377	386	423	448	563
Mathematical science	492	383	433	371	413	403	446
Computer science	848	809	742	709	753	771	782
Biological science	1,465	1,672	1,823	2,172	2,470	2,967	3,576
Agricultural science	86	63	71	75	85	91	157
Social sciences	3,234	3,452	3,913	4,526	4,951	5,492	6,120
Social science	2,163	2,313	2,592	2,996	3,151	3,522	3,758
Psychology	1,071	1,139	1,321	1,530	1,800	1,970	2,362
Non-S&E[2]	10,810	11,021	12,342	13,989	15,396	16,802	17,858
Grand total	18,370	18,930	20,952	23,426	25,768	28,255	30,947
	Underrepresented minorities, total						
Total science and engineering	16,278	17,465	19,655	22,493	24,522	26,821	28,609
Engineering	1,167	1,155	1,299	1,325	1,453	1,562	1,800
Sciences	15,111	16,310	18,356	21,168	23,069	25,259	26,809
Natural sciences	5,419	5,487	5,734	6,272	6,744	7,393	7,927
Physical science[1]	551	590	600	680	736	806	934
Mathematical science	582	564	677	757	746	808	769
Computer science	1,729	1,619	1,534	1,478	1,588	1,672	1,725
Biological science	2,417	2,558	2,752	3,158	3,472	3,790	4,157
Agricultural science	140	156	171	199	202	317	342
Social sciences	9,692	10,823	12,622	14,896	16,325	17,866	18,882
Social science	5,926	6,606	7,658	9,057	9,905	10,587	10,879
Psychology	3,766	4,217	4,964	5,839	6,420	7,279	8,003
Non-S&E[2]	44,237	46,865	51,953	56,260	60,964	65,714	68,281
Grand total	60,515	64,330	71,608	78,753	85,486	92,535	96,890
	Black, non-Hispanics						
Total science and engineering	9,700	10,400	11,539	13,056	14,322	15,483	16,401
Engineering	670	656	745	748	813	875	999
Sciences	9,030	9,744	10,794	12,308	13,509	14,608	15,402
Natural sciences	3,273	3,306	3,296	3,692	4,100	4,413	4,707
Physical science[1]	332	358	362	435	466	457	539
Mathematical science	418	378	431	530	521	535	519
Computer science	1,252	1,173	1,026	998	1,164	1,237	1,257
Biological science	1,216	1,336	1,415	1,636	1,856	2,053	2,250
Agricultural science	55	61	62	93	93	131	142
Social sciences	5,757	6,438	7,498	8,616	9,409	10,195	10,695
Social science	3,659	4,082	4,689	5,419	5,890	6,191	6,356
Psychology	2,098	2,356	2,809	3,197	3,519	4,004	4,339
Non-S&E[2]	25,224	26,311	29,232	31,737	33,971	36,727	37,888
Grand total	34,924	36,711	40,771	44,793	48,293	52,210	54,289

See explanatory information and SOURCE at end of table.

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	6,009	6,484	7,463	8,661	9,282	10,339	11,159
Engineering	461	476	527	546	606	648	756
Sciences	5,548	6,008	6,936	8,115	8,676	9,691	10,403
Natural sciences	1,985	2,029	2,247	2,395	2,426	2,723	2,923
Physical science[1]	201	211	215	220	238	318	363
Mathematical science	149	164	221	203	197	243	221
Computer science	445	416	477	449	396	416	431
Biological science	1,125	1,164	1,245	1,434	1,508	1,603	1,750
Agricultural science	65	74	89	89	87	143	158
Social sciences	3,563	3,979	4,689	5,720	6,250	6,968	7,480
Social science	2,044	2,261	2,700	3,299	3,591	3,974	4,103
Psychology	1,519	1,718	1,989	2,421	2,659	2,994	3,377
Non-S&E[2]	17,350	18,697	20,783	22,320	24,738	26,484	27,657
Grand total	23,359	25,181	28,246	30,981	34,020	36,823	38,816
	American Indians or Alaskan Natives						
Total science and engineering	569	581	653	776	918	999	1,049
Engineering	36	23	27	31	34	39	45
Sciences	533	558	626	745	884	960	1,004
Natural sciences	161	152	191	185	218	257	297
Physical science[1]	18	21	23	25	32	31	32
Mathematical science	15	22	25	24	28	30	29
Computer science	32	30	31	31	28	19	37
Biological science	76	58	92	88	108	134	157
Agricultural science	20	21	20	17	22	43	42
Social sciences	372	406	435	560	666	703	707
Social science	223	263	269	339	424	422	420
Psychology	149	143	166	221	242	281	287
Non-S&E[2]	1,663	1,857	1,938	2,203	2,255	2,503	2,736
Grand total	2,232	2,438	2,591	2,979	3,173	3,502	3,785
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	3,313	4,571	3,777	3,442	3,637	3,776	4,171
Engineering	107	182	174	121	171	145	189
Sciences	3,206	4,389	3,603	3,321	3,466	3,631	3,982
Natural sciences	903	1,125	956	875	831	963	1,166
Physical science[1]	61	103	92	106	89	114	123
Mathematical science	91	152	136	98	107	99	104
Computer science	438	408	231	169	142	149	161
Biological science	298	417	452	408	389	502	618
Agricultural science	15	45	45	94	104	99	160
Social sciences	2,303	3,264	2,647	2,446	2,635	2,668	2,816
Social science	1,411	1,870	1,564	1,457	1,504	1,525	1,601
Psychology	892	1,394	1,083	989	1,131	1,143	1,215
Non-S&E[2]	9,293	13,146	9,660	8,679	9,169	9,117	9,756
Grand total	12,606	17,717	13,437	12,121	12,806	12,893	13,927

See explanatory information and SOURCE at end of table.

Table 6. Number of earned bachelor's degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	3,280	3,382	3,741	3,897	4,408	4,467	4,820
Engineering	473	490	470	471	464	548	566
Sciences	2,807	2,892	3,271	3,426	3,944	3,919	4,254
Natural sciences	1,520	1,470	1,561	1,563	1,815	1,719	1,859
Physical science [1]	199	180	197	190	239	246	250
Mathematical science	196	200	204	234	207	198	235
Computer science	618	594	574	555	603	606	627
Biological science	447	436	519	514	648	580	659
Agricultural science	60	60	67	70	118	89	88
Social sciences	1,287	1,422	1,710	1,863	2,129	2,200	2,395
Social science	946	1,057	1,197	1,374	1,519	1,552	1,685
Psychology	341	365	513	489	610	648	710
Non-S&E [2]	6,060	6,263	7,689	7,544	8,911	10,017	11,076
Grand total	9,340	9,645	11,430	11,441	13,319	14,484	15,896

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTE: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	70,333	72,228	72,828	76,184	81,415	86,080	88,431
Engineering	23,735	23,985	24,007	25,010	27,658	28,707	28,617
Sciences	46,598	48,243	48,821	51,174	53,757	57,373	59,814
Natural sciences	26,089	26,293	25,669	26,775	27,713	28,869	29,292
Physical science [1]	5,703	5,411	5,282	5,352	5,365	5,688	5,735
Mathematical science	3,430	3,684	3,632	4,019	4,084	4,108	4,190
Computer science	9,399	9,643	9,324	9,530	10,167	10,421	10,332
Biological science	4,953	4,893	4,806	4,816	4,798	5,217	5,423
Agricultural science	2,604	2,662	2,625	3,058	3,299	3,435	3,612
Social sciences	20,509	21,950	23,152	24,399	26,044	28,504	30,522
Social science	11,857	12,642	13,350	14,119	15,024	16,230	16,501
Psychology	8,652	9,308	9,802	10,280	11,020	12,274	14,021
Non-S&E [2]	240,717	252,719	265,670	278,023	289,558	302,928	310,997
Grand total	311,050	324,947	338,498	354,207	370,973	389,008	399,428
	U.S. citizens and permanent residents, total [3]						
Total science and engineering	55,190	55,890	55,779	58,177	61,265	65,201	67,110
Engineering	16,988	16,746	16,487	17,111	18,539	19,350	18,921
Sciences	38,202	39,144	39,292	41,066	42,726	45,851	48,189
Natural sciences	20,167	19,963	18,935	19,459	19,651	20,451	20,957
Physical science [1]	4,465	4,047	3,778	3,814	3,763	3,918	3,980
Mathematical science	2,454	2,649	2,573	2,907	2,946	3,013	3,034
Computer science	6,957	7,080	6,505	6,361	6,388	6,509	6,452
Biological science	4,317	4,164	4,057	4,021	3,949	4,284	4,543
Agricultural science	1,974	2,023	2,022	2,356	2,605	2,727	2,948
Social sciences	18,035	19,181	20,357	21,607	23,075	25,400	27,232
Social science	9,642	10,258	10,872	11,629	12,387	13,487	13,695
Psychology	8,393	8,923	9,485	9,978	10,688	11,913	13,537
Non-S&E [2]	223,737	234,455	245,108	256,378	265,599	277,301	283,562
Grand total	278,927	290,345	300,887	314,555	326,864	342,502	350,672
	White, non-Hispanics						
Total science and engineering	43,945	44,450	44,513	45,649	47,975	50,711	51,417
Engineering	12,832	12,859	12,635	12,752	13,920	14,469	13,821
Sciences	31,113	31,591	31,878	32,897	34,055	36,242	37,596
Natural sciences	16,080	15,742	15,005	15,136	15,322	15,524	15,789
Physical science [1]	3,766	3,401	3,129	3,067	3,078	3,145	3,179
Mathematical science	2,032	2,169	2,068	2,336	2,354	2,379	2,342
Computer science	4,786	4,851	4,637	4,407	4,464	4,286	4,205
Biological science	3,679	3,501	3,353	3,251	3,144	3,453	3,589
Agricultural science	1,817	1,820	1,818	2,075	2,282	2,261	2,474
Social sciences	15,033	15,849	16,873	17,761	18,733	20,718	21,807
Social science	7,958	8,360	8,900	9,523	9,923	10,758	10,700
Psychology	7,075	7,489	7,973	8,238	8,810	9,960	11,107
Non-S&E [2]	186,377	192,424	203,011	211,413	217,693	223,202	226,020
Grand total	230,322	236,874	247,524	257,062	265,668	273,913	277,437

See explanatory information and SOURCE at end of table

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	4,100	4,055	4,310	4,763	4,846	5,422	5,683
Engineering	1,992	1,863	2,008	2,223	2,260	2,443	2,572
Sciences	2,108	2,192	2,302	2,540	2,586	2,979	3,111
Natural sciences	1,617	1,629	1,735	1,916	1,918	2,159	2,280
Physical science[1]	278	234	251	295	249	284	288
Mathematical science	178	184	189	201	197	233	239
Computer science	894	941	1,014	1,105	1,106	1,228	1,239
Biological science	223	225	231	264	305	332	417
Agricultural science	44	45	50	51	61	82	97
Social sciences	491	563	567	624	668	820	831
Social science	360	404	397	441	477	550	533
Psychology	131	159	170	183	191	270	298
Non-S&E[2]	6,074	5,939	6,760	7,530	8,323	9,137	10,223
Grand total	10,174	9,994	11,070	12,293	13,169	14,559	15,906
	Underrepresented minorities, total						
Total science and engineering	3,446	3,615	4,026	4,360	4,899	5,636	6,223
Engineering	856	868	906	996	1,195	1,368	1,419
Sciences	2,590	2,747	3,120	3,364	3,704	4,268	4,804
Natural sciences	1,025	1,002	1,195	1,258	1,358	1,569	1,625
Physical science[1]	188	194	182	209	231	257	295
Mathematical science	99	127	194	147	184	190	237
Computer science	381	357	425	480	484	552	561
Biological science	267	244	286	307	312	297	349
Agricultural science	90	80	108	115	147	273	183
Social sciences	1,565	1,745	1,925	2,106	2,346	2,699	3,179
Social science	777	868	1,031	1,118	1,282	1,443	1,575
Psychology	788	877	894	988	1,064	1,256	1,604
Non-S&E[2]	19,224	20,403	22,640	24,544	26,713	30,095	32,178
Grand total	22,670	24,018	26,666	28,904	31,612	35,731	38,401
	Black, non-Hispanics						
Total science and engineering	1,652	1,847	2,090	2,356	2,554	2,849	3,339
Engineering	355	387	398	466	564	589	665
Sciences	1,297	1,460	1,692	1,890	1,990	2,260	2,674
Natural sciences	495	527	644	699	716	821	881
Physical science[1]	78	87	73	98	105	127	147
Mathematical science	59	70	100	77	98	109	151
Computer science	198	232	283	316	308	365	347
Biological science	124	110	137	149	135	142	162
Agricultural science	36	28	51	59	70	78	74
Social sciences	802	933	1,048	1,191	1,274	1,439	1,793
Social science	407	462	594	660	730	803	930
Psychology	395	471	454	531	544	636	863
Non-S&E[2]	11,803	12,626	13,767	15,064	16,343	18,087	19,615
Grand total	13,455	14,473	15,857	17,420	18,897	20,936	22,954

See explanatory information and SOURCE at end of table.

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	1,585	1,587	1,736	1,806	2,092	2,514	2,585
Engineering	468	446	468	488	581	719	711
Sciences	1,117	1,141	1,268	1,318	1,511	1,795	1,874
Natural sciences	444	431	494	503	574	680	665
Physical science[1]	92	98	96	93	114	114	129
Mathematical science	34	51	85	66	78	75	75
Computer science	144	118	128	149	162	169	198
Biological science	126	120	136	146	151	138	167
Agricultural science	48	44	49	49	69	184	96
Social sciences	673	710	774	815	937	1,115	1,209
Social science	313	341	383	396	474	557	553
Psychology	360	369	391	419	463	558	656
Non-S&E[2]	6,548	6,908	7,948	8,450	9,279	10,663	11,320
Grand total	8,133	8,495	9,684	10,256	11,371	13,177	13,905
	American Indians or Alaskan Natives						
Total science and engineering	209	181	200	198	253	273	299
Engineering	33	35	40	42	50	60	43
Sciences	176	146	160	156	203	213	256
Natural sciences	86	44	57	56	68	68	79
Physical science[1]	18	9	13	18	12	16	19
Mathematical science	6	6	9	4	8	6	11
Computer science	39	7	14	15	14	18	16
Biological science	17	14	13	12	26	17	20
Agricultural science	6	8	8	7	8	11	13
Social sciences	90	102	103	100	135	145	177
Social science	57	65	54	62	78	83	92
Psychology	33	37	49	38	57	62	85
Non-S&E[2]	873	869	925	1,030	1,091	1,345	1,243
Grand total	1,082	1,050	1,125	1,228	1,344	1,618	1,542
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	3,699	3,770	2,930	3,405	3,545	3,432	3,787
Engineering	1,308	1,156	938	1,140	1,164	1,070	1,109
Sciences	2,391	2,614	1,992	2,265	2,381	2,362	2,678
Natural sciences	1,445	1,590	1,000	1,149	1,053	1,199	1,263
Physical science[1]	233	218	216	243	205	232	218
Mathematical science	145	169	122	223	211	211	216
Computer science	896	931	429	369	334	443	447
Biological science	148	194	187	199	188	202	188
Agricultural science	23	78	46	115	115	111	194
Social sciences	946	1,024	992	1,116	1,328	1,163	1,415
Social science	547	626	544	547	705	736	887
Psychology	399	398	448	569	623	427	528
Non-S&E[2]	12,062	15,689	12,697	12,891	12,870	14,867	15,141
Grand total	15,761	19,459	15,627	16,296	16,415	18,299	18,928

See explanatory information and SOURCE at end of table

Table 7. Number of earned master's degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	15,143	16,338	17,049	18,007	20,150	20,879	21,321
Engineering	6,747	7,239	7,520	7,899	9,119	9,357	9,696
Sciences	8,396	9,099	9,529	10,108	11,031	11,522	11,625
Natural sciences	5,922	6,330	6,734	7,316	8,062	8,418	8,335
Physical science [1]	1,238	1,364	1,504	1,538	1,602	1,770	1,755
Mathematical science	976	1,035	1,059	1,112	1,138	1,095	1,156
Computer science	2,442	2,563	2,819	3,169	3,779	3,912	3,880
Biological science	636	729	749	795	849	933	880
Agricultural science	630	639	603	702	694	708	664
Social sciences	2,474	2,769	2,795	2,792	2,969	3,104	3,290
Social science	2,215	2,384	2,478	2,490	2,637	2,743	2,806
Psychology	259	385	317	302	332	361	484
Non-S&E [2]	16,980	18,264	20,562	21,645	23,959	25,627	27,435
Grand total	32,123	34,602	37,611	39,652	44,109	46,506	48,756

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTE: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	47,724	48,424	47,748	49,768	53,102	55,461	55,803
Engineering	20,654	20,717	20,650	21,345	23,565	24,286	23,986
Sciences	27,070	27,707	27,098	28,423	29,537	31,175	31,817
Natural sciences	17,250	17,258	16,530	17,480	18,076	18,813	18,926
Physical science[1]	4,180	3,981	3,825	3,895	3,803	4,030	4,000
Mathematical science	2,060	2,208	2,146	2,457	2,468	2,541	2,549
Computer science	6,773	6,968	6,563	6,884	7,411	7,727	7,630
Biological science	2,491	2,393	2,315	2,316	2,365	2,475	2,616
Agricultural science	1,746	1,708	1,681	1,928	2,029	2,040	2,131
Social sciences	9,820	10,449	10,568	10,943	11,461	12,362	12,891
Social science	7,006	7,424	7,574	7,939	8,419	8,945	8,981
Psychology	2,814	3,025	2,994	3,004	3,042	3,417	3,910
Non-S&E[2]	101,675	105,601	109,147	112,531	116,651	121,301	123,395
Grand total	149,399	154,025	156,895	162,299	169,753	176,762	179,198
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	35,681	35,722	34,667	36,063	37,737	39,700	39,784
Engineering	14,446	14,174	13,977	14,350	15,542	16,140	15,624
Sciences	21,235	21,548	20,690	21,713	22,195	23,560	24,160
Natural sciences	12,985	12,819	11,839	12,393	12,504	12,985	13,134
Physical science[1]	3,226	2,953	2,755	2,784	2,685	2,794	2,778
Mathematical science	1,428	1,559	1,463	1,745	1,717	1,803	1,765
Computer science	4,925	5,035	4,419	4,504	4,600	4,779	4,725
Biological science	2,134	2,014	1,945	1,931	1,959	2,013	2,164
Agricultural science	1,272	1,258	1,257	1,429	1,543	1,596	1,702
Social sciences	8,250	8,729	8,851	9,320	9,691	10,575	11,026
Social science	5,535	5,840	5,961	6,411	6,760	7,288	7,264
Psychology	2,715	2,889	2,890	2,909	2,931	3,287	3,762
Non-S&E[2]	91,096	94,604	97,078	99,999	103,195	106,921	108,255
Grand total	126,777	130,326	131,745	136,062	140,932	146,621	148,039
	White, non-Hispanics						
Total science and engineering	28,115	28,250	27,634	28,113	29,493	30,846	30,464
Engineering	10,874	10,922	10,742	10,775	11,777	12,232	11,581
Sciences	17,241	17,328	16,892	17,338	17,716	18,614	18,883
Natural sciences	10,357	10,116	9,491	9,675	9,837	9,964	10,031
Physical science[1]	2,750	2,518	2,299	2,234	2,229	2,252	2,256
Mathematical science	1,173	1,275	1,169	1,389	1,332	1,420	1,354
Computer science	3,430	3,474	3,260	3,236	3,326	3,309	3,231
Biological science	1,830	1,711	1,629	1,566	1,593	1,643	1,740
Agricultural science	1,174	1,138	1,134	1,250	1,357	1,340	1,450
Social sciences	6,884	7,212	7,401	7,663	7,879	8,650	8,852
Social science	4,592	4,781	4,981	5,276	5,453	5,880	5,750
Psychology	2,292	2,431	2,420	2,387	2,426	2,770	3,102
Non-S&E[2]	75,927	77,825	80,283	82,684	84,224	85,912	86,191
Grand total	104,042	106,075	107,917	110,797	113,717	116,758	116,655

See explanatory information and SOURCE at end of table.

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	2,939	2,799	2,959	3,276	3,237	3,561	3,733
Engineering	1,699	1,557	1,685	1,816	1,819	1,932	2,023
Sciences	1,240	1,242	1,274	1,460	1,418	1,629	1,710
Natural sciences	990	976	1,031	1,169	1,149	1,279	1,359
Physical science[1]	179	140	165	206	150	182	187
Mathematical science	117	106	108	103	121	126	134
Computer science	565	609	627	705	710	785	785
Biological science	105	97	104	125	136	151	209
Agricultural science	24	24	27	30	32	35	44
Social sciences	250	266	243	291	269	350	351
Social science	206	224	196	229	219	276	272
Psychology	44	42	47	62	50	74	79
Non-S&E[2]	2,978	2,871	3,261	3,547	3,888	4,230	4,652
Grand total	5,917	5,670	6,220	6,823	7,125	7,791	8,385
	Underrepresented minorities, total						
Total science and engineering	1,990	2,005	2,129	2,340	2,637	2,964	3,143
Engineering	685	687	711	775	924	1,052	1,082
Sciences	1,305	1,318	1,418	1,565	1,713	1,912	2,061
Natural sciences	639	610	664	728	764	899	905
Physical science[1]	133	130	124	144	142	167	185
Mathematical science	58	74	112	92	102	111	122
Computer science	255	238	244	283	308	337	361
Biological science	129	120	116	137	132	125	136
Agricultural science	64	48	68	72	80	159	101
Social sciences	666	708	754	837	949	1,013	1,156
Social science	416	429	482	556	672	692	734
Psychology	250	279	272	281	277	321	422
Non-S&E[2]	7,049	7,316	8,078	8,336	9,266	10,180	10,841
Grand total	9,039	9,321	10,207	10,676	11,903	13,144	13,984
	Black, non-Hispanics						
Total science and engineering	878	950	1,028	1,166	1,253	1,376	1,534
Engineering	262	287	299	332	407	422	464
Sciences	616	663	729	834	846	954	1,070
Natural sciences	290	307	338	382	386	435	434
Physical science[1]	56	61	43	66	58	74	86
Mathematical science	32	37	53	44	48	62	64
Computer science	119	140	150	175	193	205	199
Biological science	59	51	58	61	47	48	50
Agricultural science	24	18	34	36	40	46	35
Social sciences	326	356	391	452	460	519	636
Social science	206	223	262	315	345	358	418
Psychology	120	133	129	137	115	161	218
Non-S&E[2]	4,086	4,219	4,591	4,628	5,219	5,631	6,102
Grand total	4,964	5,169	5,619	5,794	6,472	7,007	7,636

See explanatory information and SOURCE at end of table

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	970	959	992	1,066	1,255	1,427	1,458
Engineering	394	373	378	408	480	582	578
Sciences	576	586	614	658	775	845	880
Natural sciences	282	275	294	309	341	414	423
Physical science[1]	65	63	73	64	76	80	88
Mathematical science	21	33	52	47	50	44	53
Computer science	100	93	84	98	104	120	151
Biological science	62	61	54	69	76	65	75
Agricultural science	34	25	31	31	35	105	56
Social sciences	294	311	320	349	434	431	457
Social science	176	178	196	218	282	290	283
Psychology	118	133	124	131	152	141	174
Non-S&E[2]	2,627	2,754	3,132	3,315	3,620	4,056	4,267
Grand total	3,597	3,713	4,124	4,381	4,875	5,483	5,725
	American Indians or Alaskan Natives						
Total science and engineering	142	96	109	108	129	161	151
Engineering	29	27	34	35	37	48	40
Sciences	113	69	75	73	92	113	111
Natural sciences	67	28	32	37	37	50	48
Physical science[1]	12	6	8	14	8	13	11
Mathematical science	5	4	7	1	4	5	5
Computer science	36	5	10	10	11	12	11
Biological science	8	8	4	7	9	12	11
Agricultural science	6	5	3	5	5	8	10
Social sciences	46	41	43	36	55	63	63
Social science	34	28	24	23	45	44	33
Psychology	12	13	19	13	10	19	30
Non-S&E[2]	336	343	355	393	427	493	472
Grand total	478	439	464	501	556	654	623
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	2,637	2,668	1,945	2,334	2,370	2,329	2,444
Engineering	1,188	1,008	839	984	1,022	924	938
Sciences	1,449	1,660	1,106	1,350	1,348	1,405	1,506
Natural sciences	999	1,117	653	821	754	843	839
Physical science[1]	164	165	167	200	164	193	150
Mathematical science	80	104	74	161	162	146	155
Computer science	675	714	288	280	256	348	348
Biological science	70	86	96	103	98	94	79
Agricultural science	10	48	28	77	74	62	107
Social sciences	450	543	453	529	594	562	667
Social science	321	406	302	350	416	440	508
Psychology	129	137	151	179	178	122	159
Non-S&E[2]	5,142	6,592	5,456	5,432	5,817	6,599	6,571
Grand total	7,779	9,260	7,401	7,766	8,187	8,928	9,015

See explanatory information and SOURCE at end of table.

Table 8. Number of earned master's degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	12,043	12,702	13,081	13,705	15,365	15,761	16,019
Engineering	6,208	6,543	6,673	6,995	8,023	8,146	8,362
Sciences	5,835	6,159	6,408	6,710	7,342	7,615	7,657
Natural sciences	4,265	4,439	4,691	5,087	5,572	5,828	5,792
Physical science [1]	954	1,028	1,070	1,111	1,118	1,236	1,222
Mathematical science	632	649	683	712	751	738	784
Computer science	1,848	1,933	2,144	2,380	2,811	2,948	2,905
Biological science	357	379	370	385	406	462	452
Agricultural science	474	450	424	499	486	444	429
Social sciences	1,570	1,720	1,717	1,623	1,770	1,787	1,865
Social science	1,471	1,584	1,613	1,528	1,659	1,657	1,717
Psychology	99	136	104	95	111	130	148
Non-S&E [2]	10,579	10,997	12,069	12,532	13,456	14,380	15,140
Grand total	22,622	23,699	25,150	26,237	28,821	30,141	31,159

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTE: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	22,609	23,804	25,080	26,416	28,313	30,619	32,628
Engineering	3,081	3,268	3,357	3,665	4,093	4,421	4,631
Sciences	19,528	20,536	21,723	22,751	24,220	26,198	27,997
Natural sciences	8,839	9,035	9,139	9,295	9,637	10,056	10,366
Physical science[1]	1,523	1,430	1,457	1,457	1,562	1,658	1,735
Mathematical science	1,370	1,476	1,486	1,562	1,616	1,567	1,641
Computer science	2,626	2,675	2,761	2,646	2,756	2,694	2,702
Biological science	2,462	2,500	2,491	2,500	2,433	2,742	2,807
Agricultural science	858	954	944	1,130	1,270	1,395	1,481
Social sciences	10,689	11,501	12,584	13,456	14,583	16,142	17,631
Social science	4,851	5,218	5,776	6,180	6,605	7,285	7,520
Psychology	5,838	6,283	6,808	7,276	7,978	8,857	10,111
Non-S&E[2]	139,042	147,118	156,523	165,492	172,907	181,627	187,602
Grand total	161,651	170,922	181,603	191,908	201,220	212,246	220,230
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	19,509	20,168	21,112	22,114	23,528	25,501	27,326
Engineering	2,542	2,572	2,510	2,761	2,997	3,210	3,297
Sciences	16,967	17,596	18,602	19,353	20,531	22,291	24,029
Natural sciences	7,182	7,144	7,096	7,066	7,147	7,466	7,823
Physical science[1]	1,239	1,094	1,023	1,030	1,078	1,124	1,202
Mathematical science	1,026	1,090	1,110	1,162	1,229	1,210	1,269
Computer science	2,032	2,045	2,086	1,857	1,788	1,730	1,727
Biological science	2,183	2,150	2,112	2,090	1,990	2,271	2,379
Agricultural science	702	765	765	927	1,062	1,131	1,246
Social sciences	9,785	10,452	11,506	12,287	13,384	14,825	16,206
Social science	4,107	4,418	4,911	5,218	5,627	6,199	6,431
Psychology	5,678	6,034	6,595	7,069	7,757	8,626	9,775
Non-S&E[2]	132,641	139,851	148,030	156,379	162,404	170,380	175,307
Grand total	152,150	160,019	169,142	178,493	185,932	195,881	202,633
	White, non-Hispanics						
Total science and engineering	15,830	16,200	16,879	17,536	18,482	19,865	20,953
Engineering	1,958	1,937	1,893	1,977	2,143	2,237	2,240
Sciences	13,872	14,263	14,986	15,559	16,339	17,628	18,713
Natural sciences	5,723	5,626	5,514	5,461	5,485	5,560	5,758
Physical science[1]	1,016	883	830	833	849	893	923
Mathematical science	859	894	899	947	1,022	959	988
Computer science	1,356	1,377	1,377	1,171	1,138	977	974
Biological science	1,849	1,790	1,724	1,685	1,551	1,810	1,849
Agricultural science	643	682	684	825	925	921	1,024
Social sciences	8,149	8,637	9,472	10,098	10,854	12,068	12,955
Social science	3,366	3,579	3,919	4,247	4,470	4,878	4,950
Psychology	4,783	5,058	5,553	5,851	6,384	7,190	8,005
Non-S&E[2]	110,450	114,599	122,728	128,729	133,469	137,290	139,829
Grand total	126,280	130,799	139,607	146,265	151,951	157,155	160,782

See explanatory information and SOURCE at end of table

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	1,161	1,256	1,351	1,487	1,609	1,861	1,950
Engineering	293	306	323	407	441	511	549
Sciences	868	950	1,028	1,080	1,168	1,350	1,401
Natural sciences	627	653	704	747	769	880	921
Physical science[1]	99	94	86	89	99	102	101
Mathematical science	61	78	81	98	76	107	105
Computer science	329	332	387	400	396	443	454
Biological science	118	128	127	139	169	181	208
Agricultural science	20	21	23	21	29	47	53
Social sciences	241	297	324	333	399	470	480
Social science	154	180	201	212	258	274	261
Psychology	87	117	123	121	141	196	219
Non-S&E[2]	3,096	3,068	3,499	3,983	4,435	4,907	5,571
Grand total	4,257	4,324	4,850	5,470	6,044	6,768	7,521
	Underrepresented minorities, total						
Total science and engineering	1,456	1,610	1,897	2,020	2,262	2,672	3,080
Engineering	171	181	195	221	271	316	337
Sciences	1,285	1,429	1,702	1,799	1,991	2,356	2,743
Natural sciences	386	392	531	530	594	670	720
Physical science[1]	55	64	58	65	89	90	110
Mathematical science	41	53	82	55	82	79	115
Computer science	126	119	181	197	176	215	200
Biological science	138	124	170	170	180	172	213
Agricultural science	26	32	40	43	67	114	82
Social sciences	899	1,037	1,171	1,269	1,397	1,686	2,023
Social science	361	439	549	562	610	751	841
Psychology	538	598	622	707	787	935	1,182
Non-S&E[2]	12,175	13,087	14,562	16,208	17,447	19,915	21,337
Grand total	13,631	14,697	16,459	18,228	19,709	22,587	24,417
	Black, non-Hispanics						
Total science and engineering	774	897	1,062	1,190	1,301	1,473	1,805
Engineering	93	100	99	134	157	167	201
Sciences	681	797	963	1,056	1,144	1,306	1,604
Natural sciences	205	220	306	317	330	386	447
Physical science[1]	22	26	30	32	47	53	61
Mathematical science	27	33	47	33	50	47	87
Computer science	79	92	133	141	115	160	148
Biological science	65	59	79	88	88	94	112
Agricultural science	12	10	17	23	30	32	39
Social sciences	476	577	657	739	814	920	1,157
Social science	201	239	332	345	385	445	512
Psychology	275	338	325	394	429	475	645
Non-S&E[2]	7,717	8,407	9,176	10,436	11,124	12,456	13,513
Grand total	8,491	9,304	10,238	11,626	12,425	13,929	15,318

See explanatory information and SOURCE at end of table

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Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	615	628	744	740	837	1,087	1,127
Engineering	74	73	90	80	101	137	133
Sciences	541	555	654	660	736	950	994
Natural sciences	162	156	200	194	233	266	242
Physical science[1]	27	35	23	29	38	34	41
Mathematical science	13	18	33	19	28	31	22
Computer science	44	25	44	51	58	49	47
Biological science	64	59	82	77	75	73	92
Agricultural science	14	19	18	18	34	79	40
Social sciences	379	399	454	466	503	684	752
Social science	137	163	187	178	192	267	270
Psychology	242	236	267	288	311	417	482
Non-S&E[2]	3,921	4,154	4,816	5,135	5,659	6,607	7,053
Grand total	4,536	4,782	5,560	5,875	6,496	7,694	8,180
	American Indians or Alaskan Natives						
Total science and engineering	67	85	91	90	124	112	148
Engineering	4	8	6	7	13	12	3
Sciences	63	77	85	83	111	100	145
Natural sciences	19	16	25	19	31	18	31
Physical science[1]	6	3	5	4	4	3	8
Mathematical science	1	2	2	3	4	1	6
Computer science	3	2	4	5	3	6	5
Biological science	9	6	9	5	17	5	9
Agricultural science	0	3	5	2	3	3	3
Social sciences	44	61	60	64	80	82	114
Social science	23	37	30	39	33	39	59
Psychology	21	24	30	25	47	43	55
Non-S&E[2]	537	526	570	637	664	852	771
Grand total	604	611	661	727	788	964	919
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	1,062	1,102	985	1,071	1,175	1,103	1,343
Engineering	120	148	99	156	142	146	171
Sciences	942	954	886	915	1,033	957	1,172
Natural sciences	446	473	347	328	299	356	424
Physical science[1]	69	53	49	43	41	39	68
Mathematical science	65	65	48	62	49	65	61
Computer science	221	217	141	89	78	95	99
Biological science	78	108	91	96	90	108	109
Agricultural science	13	30	18	38	41	49	87
Social sciences	496	481	539	587	734	601	748
Social science	226	220	242	197	289	296	379
Psychology	270	261	297	390	445	305	369
Non-S&E[2]	6,920	9,097	7,241	7,459	7,053	8,268	8,570
Grand total	7,982	10,199	8,226	8,530	8,228	9,371	9,913

See explanatory information and SOURCE at end of table

Table 9. Number of earned master's degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	3,100	3,636	3,968	4,302	4,785	5,118	5,302
Engineering	539	696	847	904	1,096	1,211	1,334
Sciences	2,561	2,940	3,121	3,398	3,689	3,907	3,968
Natural sciences	1,657	1,891	2,043	2,229	2,490	2,590	2,543
Physical science [1]	284	336	434	427	484	534	533
Mathematical science	344	386	376	400	387	357	372
Computer science	594	630	675	789	968	964	975
Biological science	279	350	379	410	443	471	428
Agricultural science	156	189	179	203	208	264	235
Social sciences	904	1,049	1,078	1,169	1,199	1,317	1,425
Social science	744	800	865	962	978	1,086	1,089
Psychology	160	249	213	207	221	231	336
Non S&E [2]	6,401	7,267	8,493	9,113	10,503	11,247	12,295
Grand total	9,501	10,903	12,461	13,415	15,288	16,365	17,597

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non S&E refers to non science and non engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only. No racial/ethnic data are collected for this group.

NOTE: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	21,731	22,867	24,019	24,673	25,441	26,202	26,515
Engineering	4,543	4,894	5,215	5,438	5,698	5,822	6,007
Sciences	17,188	17,973	18,804	19,235	19,743	20,380	20,508
Natural sciences	10,656	11,360	11,998	12,362	12,555	13,100	13,212
Physical science[1]	3,984	4,262	4,440	4,574	4,470	4,801	4,618
Mathematical science	859	892	1,039	1,058	1,146	1,118	1,190
Computer science	612	705	800	869	880	903	998
Biological science	4,115	4,327	4,646	4,798	5,091	5,200	5,370
Agricultural science	1,086	1,174	1,073	1,063	968	1,078	1,036
Social sciences	6,532	6,613	6,806	6,873	7,188	7,280	7,296
Social science	3,324	3,332	3,556	3,610	3,769	3,900	3,877
Psychology	3,208	3,281	3,250	3,263	3,419	3,380	3,419
Non-S&E[2]	12,595	13,200	13,503	14,183	14,330	14,815	15,095
Grand total	34,326	36,067	37,522	38,856	39,771	41,017	41,610
	U.S. citizens and permanent residents, total[3]						
Total science and engineering	14,591	15,363	15,909	15,940	16,570	18,184	18,961
Engineering	2,229	2,346	2,474	2,520	2,697	3,053	3,336
Sciences	12,362	13,017	13,435	13,420	13,873	15,131	15,625
Natural sciences	7,452	7,767	8,027	8,033	8,190	9,303	9,740
Physical science[1]	2,678	2,876	2,917	2,897	2,834	3,402	3,433
Mathematical science	428	422	518	507	590	657	771
Computer science	396	403	451	489	509	543	617
Biological science	3,299	3,379	3,521	3,567	3,751	4,085	4,321
Agricultural science	651	687	620	573	506	616	598
Social sciences	4,910	5,250	5,408	5,387	5,683	5,828	5,885
Social science	2,173	2,258	2,390	2,401	2,524	2,691	2,716
Psychology	2,737	2,992	3,018	2,986	3,159	3,137	3,169
Non-S&E[2]	10,435	11,240	11,509	12,016	12,105	12,693	12,949
Grand total	25,026	26,603	27,418	27,956	28,675	30,877	31,910
	White, non-Hispanics						
Total science and engineering	12,501	13,170	13,323	13,326	13,735	13,890	13,879
Engineering	1,726	1,840	1,837	1,880	2,025	2,020	2,086
Sciences	10,775	11,330	11,486	11,446	11,710	11,870	11,793
Natural sciences	6,488	6,789	6,885	6,822	6,836	7,004	6,962
Physical science[1]	2,326	2,502	2,525	2,458	2,366	2,529	2,385
Mathematical science	369	372	419	425	476	479	535
Computer science	319	339	355	378	410	401	453
Biological science	2,904	2,975	3,041	3,068	3,146	3,108	3,116
Agricultural science	570	601	545	493	438	487	473
Social sciences	4,287	4,541	4,601	4,624	4,874	4,866	4,831
Social science	1,834	1,893	1,949	1,988	2,069	2,135	2,116
Psychology	2,453	2,648	2,652	2,636	2,805	2,731	2,715
Non-S&E[2]	9,069	9,709	9,856	10,273	10,292	10,695	10,729
Grand total	21,570	22,879	23,179	23,599	24,027	24,585	24,608

See explanatory information and SOURCE at end of table.

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	986	1,009	1,180	1,344	1,610	2,989	3,666
Engineering	361	359	405	451	527	867	1,031
Sciences	625	650	775	893	1,083	2,122	2,635
Natural sciences	479	486	597	697	842	1,740	2,203
Physical science[1]	179	179	189	253	287	689	855
Mathematical science	24	27	57	52	79	142	208
Computer science	52	48	66	86	77	117	138
Biological science	201	200	261	269	370	720	924
Agricultural science	23	32	24	37	29	72	78
Social sciences	146	164	178	196	241	382	432
Social science	91	111	119	137	168	273	311
Psychology	55	53	59	59	73	109	121
Non-S&E[2]	282	297	351	417	402	556	634
Grand total	1,268	1,306	1,531	1,761	2,012	3,545	4,300
	Underrepresented minorities, total						
Total science and engineering	801	884	1,007	989	1,053	1,108	1,194
Engineering	87	98	121	131	118	126	158
Sciences	714	786	886	858	935	982	1,036
Natural sciences	313	328	370	373	417	471	465
Physical science[1]	119	122	128	132	146	157	140
Mathematical science	19	15	20	18	25	26	22
Computer science	7	6	21	15	14	18	17
Biological science	134	143	165	176	195	222	246
Agricultural science	34	42	36	32	37	48	40
Social sciences	401	458	516	485	518	511	571
Social science	200	215	251	231	253	242	262
Psychology	201	243	265	254	265	269	309
Non-S&E[2]	949	1,099	1,152	1,182	1,317	1,337	1,464
Grand total	1,750	1,983	2,159	2,171	2,370	2,445	2,658
	Black, non-Hispanics						
Total science and engineering	366	373	459	407	468	496	557
Engineering	33	40	55	49	50	54	71
Sciences	333	333	404	358	418	442	486
Natural sciences	114	103	130	115	149	170	184
Physical science[1]	35	33	34	31	45	52	46
Mathematical science	8	4	11	4	8	11	5
Computer science	1	1	8	5	6	10	11
Biological science	56	50	60	61	74	75	105
Agricultural science	14	15	17	14	16	22	17
Social sciences	219	230	274	243	269	272	302
Social science	122	115	144	137	150	148	152
Psychology	97	115	130	106	119	124	150
Non-S&E[2]	596	676	701	706	809	778	898
Grand total	962	1,049	1,160	1,113	1,277	1,274	1,455

See explanatory information and SOURCE at end of table

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	382	468	492	513	542	548	568
Engineering	47	54	60	71	66	66	77
Sciences	335	414	432	442	476	482	491
Natural sciences	172	212	212	228	249	274	253
Physical science[1]	68	85	81	88	92	98	85
Mathematical science	11	10	9	12	16	13	15
Computer science	4	5	12	8	7	7	6
Biological science	71	89	95	102	114	131	126
Agricultural science	18	23	15	18	20	25	21
Social sciences	163	202	220	214	227	208	238
Social science	70	93	98	81	96	75	93
Psychology	93	109	122	133	131	133	145
Non-S&E[2]	312	369	375	396	431	481	487
Grand total	694	837	867	909	973	1,029	1,055
	American Indians or Alaskan Natives						
Total science and engineering	53	43	56	69	43	64	69
Engineering	7	4	6	11	2	6	10
Sciences	46	39	50	58	41	58	59
Natural sciences	27	13	28	30	19	27	28
Physical science[1]	16	4	13	13	9	7	9
Mathematical science	0	1	0	2	1	2	2
Computer science	2	0	1	2	1	1	0
Biological science	7	4	10	13	7	16	15
Agricultural science	2	4	4	0	1	1	2
Social sciences	19	26	22	28	22	31	31
Social science	8	7	9	13	7	19	17
Psychology	11	19	13	15	15	12	14
Non-S&E[2]	41	54	76	80	77	78	79
Grand total	94	97	132	149	120	142	148
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	303	300	399	281	172	197	222
Engineering	55	49	111	58	27	40	61
Sciences	248	251	288	223	145	157	161
Natural sciences	172	164	175	141	95	88	110
Physical science[1]	54	73	75	54	35	27	53
Mathematical science	16	8	22	12	10	10	6
Computer science	18	10	9	10	8	7	9
Biological science	60	61	54	54	40	35	35
Agricultural science	24	12	15	11	2	9	7
Social sciences	76	87	113	82	50	69	51
Social science	48	39	71	45	34	41	27
Psychology	28	48	42	37	16	28	24
Non-S&E[2]	135	135	150	144	94	105	122
Grand total	438	435	549	425	266	302	344

See explanatory information and SOURCE at end of table

Table 10. Number of earned doctoral degrees, by field and by race/ethnicity of recipient: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	5,391	6,571	7,642	8,092	8,113	7,521	6,992
Engineering	1,940	2,277	2,634	2,743	2,784	2,653	2,523
Sciences	3,451	4,294	5,008	5,349	5,329	4,868	4,469
Natural sciences	2,499	3,232	3,782	4,089	4,056	3,606	3,249
Physical science [1]	1,012	1,244	1,442	1,582	1,498	1,304	1,102
Mathematical science	346	424	506	511	517	448	382
Computer science	178	271	340	365	348	343	365
Biological science	608	853	1,059	1,159	1,246	1,058	971
Agricultural science	355	440	435	472	447	453	429
Social sciences	952	1,062	1,226	1,260	1,273	1,262	1,220
Social science	846	945	1,093	1,104	1,125	1,111	1,058
Psychology	106	117	133	156	148	151	162
Non-S&E [2]	1,257	1,522	1,670	1,861	1,821	1,885	1,814
Grand total	6,648	8,093	9,312	9,953	9,934	9,406	8,806
	Citizenship unknown						
Total science and engineering	1,749	933	468	641	758	497	562
Engineering	374	271	107	175	217	116	148
Sciences	1,375	662	361	466	541	381	414
Natural sciences	705	361	189	240	309	191	223
Physical science [1]	294	142	81	95	138	95	83
Mathematical science	85	46	15	40	39	13	37
Computer science	38	31	9	15	23	17	16
Biological science	208	95	66	72	94	57	78
Agricultural science	80	47	18	18	15	9	9
Social sciences	670	301	172	226	232	190	191
Social science	305	129	73	105	120	98	103
Psychology	365	172	99	121	112	92	88
Non-S&E [2]	903	438	324	306	404	237	332
Grand total	2,652	1,371	792	947	1,162	734	894

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

4 Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	15,622	16,498	17,088	17,593	17,789	18,283	18,242
Engineering	4,168	4,479	4,748	4,932	5,176	5,187	5,313
Sciences	11,454	12,019	12,340	12,661	12,613	13,096	12,929
Natural sciences	7,857	8,430	8,843	9,015	8,935	9,361	9,271
Physical science [1]	3,217	3,460	3,582	3,616	3,530	3,790	3,570
Mathematical science	704	734	840	853	882	882	925
Computer science	504	595	683	749	742	766	812
Biological science	2,573	2,713	2,874	2,967	3,041	3,094	3,156
Agricultural science	859	928	864	830	740	829	808
Social sciences	3,597	3,589	3,497	3,646	3,678	3,735	3,658
Social science	2,189	2,221	2,243	2,311	2,347	2,457	2,411
Psychology	1,408	1,368	1,254	1,335	1,331	1,278	1,247
Non-S&E [2]	6,191	6,464	6,564	6,843	6,869	6,928	7,035
Grand total	21,813	22,962	23,652	24,436	24,658	25,211	25,277
	U.S. citizens and permanent residents, total [3]						
Total science and engineering	9,670	10,182	10,313	10,363	10,546	11,691	12,069
Engineering	1,954	2,070	2,158	2,192	2,349	2,605	2,818
Sciences	7,716	8,112	8,155	8,171	8,197	9,086	9,251
Natural sciences	5,270	5,526	5,684	5,584	5,558	6,388	6,573
Physical science [1]	2,121	2,288	2,306	2,236	2,193	2,633	2,581
Mathematical science	327	329	406	390	426	506	588
Computer science	312	313	357	406	400	449	474
Biological science	2,023	2,068	2,132	2,129	2,167	2,344	2,467
Agricultural science	487	528	483	423	372	456	463
Social sciences	2,446	2,586	2,471	2,587	2,639	2,698	2,678
Social science	1,272	1,366	1,343	1,381	1,418	1,529	1,553
Psychology	1,174	1,220	1,128	1,206	1,221	1,169	1,125
Non-S&E [2]	4,864	5,174	5,290	5,430	5,418	5,677	5,746
Grand total	14,534	15,356	15,603	15,793	15,964	17,368	17,815
	White, non-Hispanics						
Total science and engineering	8,213	8,648	8,584	8,623	8,723	8,731	8,670
Engineering	1,502	1,614	1,602	1,640	1,764	1,715	1,766
Sciences	6,711	7,034	6,982	6,983	6,959	7,016	6,904
Natural sciences	4,580	4,836	4,910	4,779	4,705	4,811	4,729
Physical science [1]	1,842	2,008	2,000	1,927	1,868	1,998	1,830
Mathematical science	281	293	335	332	352	361	409
Computer science	252	259	282	309	327	326	349
Biological science	1,784	1,821	1,871	1,847	1,835	1,759	1,772
Agricultural science	421	455	422	364	323	367	369
Social sciences	2,131	2,198	2,072	2,204	2,254	2,205	2,175
Social science	1,066	1,123	1,081	1,126	1,160	1,176	1,195
Psychology	1,065	1,075	991	1,078	1,094	1,029	980
Non-S&E [2]	4,215	4,513	4,564	4,642	4,608	4,825	4,815
Grand total	12,428	13,161	13,148	13,265	13,331	13,556	13,485

See explanatory information and SOURCE at end of table.

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	745	757	806	926	1,079	2,169	2,557
Engineering	327	326	356	390	466	748	863
Sciences	418	431	450	536	613	1,421	1,694
Natural sciences	331	336	373	433	501	1,214	1,459
Physical science[1]	139	136	135	165	182	494	616
Mathematical science	21	20	39	33	43	116	158
Computer science	42	41	51	74	58	101	108
Biological science	112	113	132	136	198	451	515
Agricultural science	17	26	16	25	20	52	62
Social sciences	87	95	77	103	112	207	235
Social science	59	73	62	83	90	175	191
Psychology	28	22	15	20	22	32	44
Non-S&E[2]	160	152	166	208	203	300	311
Grand total	905	909	972	1,134	1,282	2,469	2,868
	Underrepresented minorities, total						
Total science and engineering	473	540	609	587	605	640	669
Engineering	74	83	101	107	95	105	132
Sciences	399	457	508	480	510	535	537
Natural sciences	217	220	257	252	274	296	299
Physical science[1]	88	82	106	97	112	119	92
Mathematical science	12	10	12	14	22	20	16
Computer science	2	5	16	13	8	15	9
Biological science	86	88	91	104	104	112	153
Agricultural science	29	35	32	24	28	30	29
Social sciences	182	237	251	228	236	239	238
Social science	113	136	150	139	141	145	146
Psychology	69	101	101	89	95	94	92
Non-S&E[2]	404	440	471	494	549	500	556
Grand total	877	980	1,080	1,081	1,154	1,140	1,225
	Black, non-Hispanics						
Total science and engineering	213	225	266	237	260	282	289
Engineering	30	34	47	43	39	41	56
Sciences	183	191	219	194	221	241	233
Natural sciences	77	71	84	79	98	102	114
Physical science[1]	27	24	28	24	35	38	28
Mathematical science	5	3	7	4	7	8	4
Computer science	0	1	4	4	2	8	7
Biological science	32	29	29	37	42	32	64
Agricultural science	13	14	16	10	12	16	11
Social sciences	106	120	135	115	123	139	119
Social science	70	77	91	87	79	93	81
Psychology	36	43	44	28	44	46	38
Non-S&E[2]	239	254	282	280	317	270	319
Grand total	452	479	548	517	577	552	608

See explanatory information and SOURCE at end of table.

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	227	290	306	308	320	318	336
Engineering	39	45	50	56	54	60	66
Sciences	188	245	256	252	266	258	270
Natural sciences	120	138	152	151	162	174	166
Physical science[1]	47	55	68	62	70	75	58
Mathematical science	7	6	5	9	14	10	11
Computer science	1	4	11	7	6	7	2
Biological science	50	56	56	59	57	69	79
Agricultural science	15	17	12	14	15	13	16
Social sciences	68	107	104	101	104	84	104
Social science	38	55	52	46	59	41	56
Psychology	30	52	52	55	45	43	48
Non-S&E[2]	149	159	152	174	197	199	200
Grand total	376	449	458	482	517	517	536
	American Indians or Alaskan Natives						
Total science and engineering	33	25	37	42	25	40	44
Engineering	5	4	4	8	2	4	10
Sciences	28	21	33	34	23	36	34
Natural sciences	20	11	21	22	14	20	19
Physical science[1]	14	3	10	11	7	6	6
Mathematical science	0	1	0	1	1	2	1
Computer science	1	0	1	2	0	0	0
Biological science	4	3	6	8	5	11	10
Agricultural science	1	4	4	0	1	1	2
Social sciences	8	10	12	12	9	16	15
Social science	5	4	7	6	3	11	9
Psychology	3	6	5	6	6	5	6
Non-S&E[2]	16	27	37	40	35	31	37
Grand total	49	52	74	82	60	71	81
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	239	237	314	227	139	151	173
Engineering	51	47	99	55	24	37	57
Sciences	188	190	215	172	115	114	116
Natural sciences	142	134	144	120	78	67	86
Physical science[1]	52	62	65	47	31	22	43
Mathematical science	13	6	20	11	9	9	5
Computer science	16	8	8	10	7	7	8
Biological science	41	46	38	42	30	22	27
Agricultural science	20	12	13	10	1	7	3
Social sciences	46	56	71	52	37	47	30
Social science	34	34	50	33	27	33	21
Psychology	12	22	21	19	10	14	9
Non-S&E[2]	85	69	89	86	58	52	64
Grand total	324	306	403	313	197	203	237

See explanatory information and SOURCE at end of table

Table 11. Number of earned doctoral degrees, by field and by race/ethnicity of male recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	4,609	5,590	6,413	6,741	6,658	6,201	5,745
Engineering	1,850	2,157	2,485	2,574	2,623	2,475	2,364
Sciences	2,759	3,433	3,928	4,167	4,035	3,726	3,381
Natural sciences	2,011	2,608	3,003	3,230	3,127	2,802	2,521
Physical science [1]	852	1,048	1,206	1,296	1,217	1,066	920
Mathematical science	299	363	420	427	422	364	304
Computer science	160	256	317	329	322	302	322
Biological science	400	582	694	787	809	704	635
Agricultural science	300	359	366	391	357	366	340
Social sciences	748	825	925	937	908	924	860
Social science	688	763	848	856	844	853	782
Psychology	60	62	77	81	64	71	78
Non-S&E [2]	835	1,042	1,105	1,222	1,207	1,129	1,108
Grand total	5,444	6,632	7,518	7,963	7,865	7,330	6,853
	Citizenship unknown						
Total science and engineering	1,343	726	362	489	585	391	428
Engineering	364	252	105	166	204	107	131
Sciences	979	474	257	323	381	284	297
Natural sciences	576	296	156	201	250	171	177
Physical science [1]	244	124	70	84	120	91	69
Mathematical science	78	42	14	36	34	12	33
Computer science	32	26	9	14	20	15	16
Biological science	150	63	48	51	65	46	54
Agricultural science	72	41	15	16	11	7	5
Social sciences	403	178	101	122	131	113	120
Social science	229	92	52	74	85	75	76
Psychology	174	86	49	48	46	38	44
Non-S&E [2]	492	248	169	191	244	122	181
Grand total	1,835	974	531	680	829	513	609

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

[3] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[4] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all recipients						
Total science and engineering	6,109	6,369	6,931	7,080	7,652	7,919	8,273
Engineering	375	415	467	506	522	635	694
Sciences	5,734	5,954	6,464	6,574	7,130	7,284	7,579
Natural sciences	2,799	2,930	3,155	3,347	3,620	3,739	3,941
Physical science [1]	767	802	858	958	940	1,011	1,048
Mathematical science	155	158	199	205	264	236	265
Computer science	108	110	117	120	138	137	186
Biological science	1,542	1,614	1,772	1,831	2,050	2,106	2,214
Agricultural science	227	246	209	233	228	249	228
Social sciences	2,935	3,024	3,309	3,227	3,510	3,545	3,638
Social science	1,135	1,111	1,313	1,299	1,422	1,443	1,466
Psychology	1,800	1,913	1,996	1,928	2,088	2,102	2,172
Non-S&E [2]	6,404	6,736	6,939	7,340	7,461	7,887	8,060
Grand total	12,513	13,105	13,870	14,420	15,113	15,806	16,333
	U.S. citizens and permanent residents, total [3]						
Total science and engineering	4,921	5,181	5,596	5,577	6,024	6,493	6,892
Engineering	275	276	316	328	348	448	518
Sciences	4,646	4,905	5,280	5,249	5,676	6,045	6,374
Natural sciences	2,182	2,241	2,343	2,449	2,632	2,915	3,167
Physical science [1]	557	588	611	661	641	769	852
Mathematical science	101	93	112	117	164	151	183
Computer science	84	90	94	83	109	94	143
Biological science	1,276	1,311	1,389	1,438	1,584	1,741	1,854
Agricultural science	164	159	137	150	134	160	135
Social sciences	2,464	2,664	2,937	2,800	3,044	3,130	3,207
Social science	901	892	1,047	1,020	1,106	1,162	1,163
Psychology	1,563	1,772	1,890	1,780	1,938	1,968	2,044
Non-S&E [2]	5,571	6,066	6,219	6,586	6,687	7,016	7,203
Grand total	10,492	11,247	11,815	12,163	12,711	13,509	14,095
	White, non-Hispanics						
Total science and engineering	4,288	4,522	4,739	4,703	5,012	5,159	5,209
Engineering	224	226	235	240	261	305	320
Sciences	4,064	4,296	4,504	4,463	4,751	4,854	4,889
Natural sciences	1,908	1,953	1,975	2,043	2,131	2,193	2,233
Physical science [1]	484	494	525	531	498	531	555
Mathematical science	88	79	84	93	124	118	126
Computer science	67	80	73	69	83	75	104
Biological science	1,120	1,154	1,170	1,221	1,311	1,349	1,344
Agricultural science	149	146	123	129	115	120	104
Social sciences	2,156	2,343	2,529	2,420	2,620	2,661	2,656
Social science	768	770	868	862	909	959	921
Psychology	1,388	1,573	1,661	1,558	1,711	1,702	1,735
Non-S&E [2]	4,854	5,196	5,292	5,631	5,684	5,870	5,914
Grand total	9,142	9,718	10,031	10,334	10,696	11,029	11,123

See explanatory information and SOURCE at end of table.

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Asians						
Total science and engineering	241	252	374	418	531	820	1,109
Engineering	34	33	49	61	61	119	168
Sciences	207	219	325	357	470	701	941
Natural sciences	148	150	224	264	341	526	744
Physical science[1]	40	43	54	88	105	195	239
Mathematical science	3	7	18	19	36	26	50
Computer science	10	7	15	12	19	16	30
Biological science	89	87	129	133	172	269	409
Agricultural science	6	6	8	12	9	20	16
Social sciences	59	69	101	93	129	175	197
Social science	32	38	57	54	78	98	120
Psychology	27	31	44	39	51	77	77
Non-S&E[2]	122	145	185	209	199	256	323
Grand total	363	397	559	627	730	1,076	1,432
	Underrepresented minorities, total						
Total science and engineering	328	344	398	402	448	468	525
Engineering	13	15	20	24	23	21	26
Sciences	315	329	378	378	425	447	499
Natural sciences	96	108	113	121	143	175	166
Physical science[1]	31	40	22	35	34	38	48
Mathematical science	7	5	8	4	3	6	6
Computer science	5	1	5	2	6	3	8
Biological science	48	55	74	72	91	110	93
Agricultural science	5	7	4	8	9	18	11
Social sciences	219	221	265	257	282	272	333
Social science	87	79	101	92	112	97	116
Psychology	132	142	164	165	170	175	217
Non-S&E[2]	545	659	681	688	768	837	908
Grand total	873	1,003	1,079	1,090	1,216	1,305	1,433
	Black, non-Hispanics						
Total science and engineering	153	148	193	170	208	214	268
Engineering	3	6	8	6	11	13	15
Sciences	150	142	185	164	197	201	253
Natural sciences	37	32	46	36	51	68	70
Physical science[1]	8	9	6	7	10	14	18
Mathematical science	3	1	4	0	1	3	1
Computer science	1	0	4	1	4	2	4
Biological science	24	21	31	24	32	43	41
Agricultural science	1	1	1	4	4	6	6
Social sciences	113	110	139	128	146	133	183
Social science	52	38	53	50	71	55	71
Psychology	61	72	86	78	75	78	112
Non-S&E[2]	357	422	419	426	492	508	579
Grand total	510	570	612	596	700	722	847

See explanatory information and SOURCE at end of table.

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Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Hispanics						
Total science and engineering	155	178	186	205	222	230	232
Engineering	8	9	10	15	12	6	11
Sciences	147	169	176	190	210	224	221
Natural sciences	52	74	60	77	87	100	87
Physical science[1]	21	30	13	26	22	23	27
Mathematical science	4	4	4	3	2	3	4
Computer science	3	1	1	1	1	0	4
Biological science	21	33	39	43	57	62	47
Agricultural science	3	6	3	4	5	12	5
Social sciences	95	95	116	113	123	124	134
Social science	32	38	46	35	37	34	37
Psychology	63	57	70	78	86	90	97
Non-S&E[2]	163	210	223	222	234	282	287
Grand total	318	388	409	427	456	512	519
	American Indians or Alaskan Natives						
Total science and engineering	20	18	19	27	18	24	25
Engineering	2	0	2	3	0	2	0
Sciences	18	18	17	24	18	22	25
Natural sciences	7	2	7	8	5	7	9
Physical science[1]	2	1	3	2	2	1	3
Mathematical science	0	0	0	1	0	0	1
Computer science	1	0	0	0	1	1	0
Biological science	3	1	4	5	2	5	5
Agricultural science	1	0	0	0	0	0	0
Social sciences	11	16	10	16	13	15	16
Social science	3	3	2	7	4	8	8
Psychology	8	13	8	9	9	7	8
Non-S&E[2]	25	27	39	40	42	47	42
Grand total	45	45	58	67	60	71	67
	U.S. citizens and permanent residents, unknown race/ethnicity						
Total science and engineering	64	63	85	54	33	46	49
Engineering	4	2	12	3	3	3	4
Sciences	60	61	73	51	30	43	45
Natural sciences	30	30	31	21	17	21	24
Physical science[1]	2	11	10	7	4	5	10
Mathematical science	3	2	2	1	1	1	1
Computer science	2	2	1	0	1	0	1
Biological science	19	15	16	12	10	13	8
Agricultural science	4	0	2	1	1	2	4
Social sciences	30	31	42	30	13	22	21
Social science	14	5	21	12	7	8	6
Psychology	16	26	21	18	6	14	15
Non-S&E[2]	50	66	61	58	36	53	58
Grand total	114	129	146	112	69	99	107

See explanatory information and SOURCE at end of table.

Table 12. Number of earned doctoral degrees, by field and by race/ethnicity of female recipients: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Nonresident aliens [4]						
Total science and engineering	782	981	1,229	1,351	1,455	1,320	1,247
Engineering	90	120	149	169	161	178	159
Sciences	692	861	1,080	1,182	1,294	1,142	1,088
Natural sciences	488	624	779	859	929	804	728
Physical science [1]	160	196	236	286	281	238	182
Mathematical science	47	61	86	84	95	84	78
Computer science	18	15	23	36	26	41	43
Biological science	208	271	365	372	437	354	336
Agricultural science	55	81	69	81	90	87	89
Social sciences	204	237	301	323	365	338	360
Social science	158	182	245	248	281	258	276
Psychology	46	55	56	75	84	80	84
Non-S&E [2]	422	480	565	639	614	756	706
Grand total	1,204	1,461	1,794	1,990	2,069	2,076	1,953
	Citizenship unknown						
Total science and engineering	406	207	106	152	173	106	134
Engineering	10	19	2	9	13	9	17
Sciences	396	188	104	143	160	97	117
Natural sciences	129	65	33	39	59	20	46
Physical science [1]	50	18	11	11	18	4	14
Mathematical science	7	4	1	4	5	1	4
Computer science	6	5	0	1	3	2	0
Biological science	58	32	18	21	29	11	24
Agricultural science	8	6	3	2	4	2	4
Social sciences	267	123	71	104	101	77	71
Social science	76	37	21	31	35	23	27
Psychology	191	86	50	73	66	54	44
Non-S&E [2]	411	190	155	115	160	115	151
Grand total	817	397	261	267	333	221	285

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

3 Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

4 Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 13. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	17,385	18,230	19,987	22,431	24,421	26,289	27,528
Engineering	2,067	2,072	2,229	2,362	2,577	2,659	2,845
Sciences	15,318	16,158	17,758	20,069	21,844	23,630	24,683
Natural sciences	6,005	5,782	5,834	6,401	6,972	7,559	8,021
Physical science[1]	697	650	753	816	836	921	1,034
Mathematical science	792	720	811	904	965	992	995
Computer science	2,457	2,247	1,997	2,090	2,213	2,398	2,498
Biological science	1,916	1,994	2,111	2,385	2,739	2,980	3,231
Agricultural science	143	171	162	206	219	268	263
Social sciences	9,313	10,376	11,924	13,668	14,872	16,071	16,662
Social science	6,570	7,226	8,236	9,489	10,254	10,835	10,921
Psychology	2,743	3,150	3,688	4,179	4,618	5,236	5,741
Non-S&E[2]	39,452	41,071	45,022	48,880	52,246	56,027	57,759
Grand total	56,837	59,301	65,009	71,311	76,667	82,316	85,287
	Black recipients from HBCUs						
Total science and engineering	5,054	5,190	5,679	6,363	7,368	7,804	8,361
Engineering	474	524	589	594	700	690	798
Sciences	4,580	4,666	5,090	5,769	6,668	7,114	7,563
Natural sciences	2,513	2,353	2,363	2,599	3,021	3,105	3,384
Physical science[1]	320	296	358	376	390	421	471
Mathematical science	381	307	369	420	463	449	466
Computer science	1,048	899	748	780	904	904	967
Biological science	693	764	792	906	1,155	1,197	1,357
Agricultural science	71	87	96	117	109	134	123
Social sciences	2,067	2,313	2,727	3,170	3,647	4,009	4,179
Social science	1,517	1,651	1,886	2,201	2,507	2,701	2,747
Psychology	550	662	841	969	1,140	1,308	1,432
Non-S&E[2]	10,871	11,155	12,284	13,346	14,481	15,622	15,628
Grand total	15,925	16,345	17,963	19,709	21,849	23,426	23,989
	Percent from HBCUs						
Total science and engineering	29.1	28.5	28.4	28.4	30.2	29.7	30.4
Engineering	22.9	25.3	26.4	25.1	27.2	25.9	28.0
Sciences	29.9	28.9	28.7	28.7	30.5	30.1	30.6
Natural sciences	41.8	40.7	40.5	40.6	43.3	41.1	42.2
Physical science[1]	45.9	45.5	47.5	46.1	46.7	45.7	45.6
Mathematical science	48.1	42.6	45.5	46.5	48.0	45.3	46.8
Computer science	42.7	40.0	37.5	37.3	40.8	37.7	38.7
Biological science	36.2	38.3	37.5	38.0	42.2	40.2	42.0
Agricultural science	49.7	50.9	59.3	56.8	49.8	50.0	46.8
Social sciences	22.2	22.3	22.9	23.2	24.5	24.9	25.1
Social science	23.1	22.8	22.9	23.2	24.4	24.9	25.2
Psychology	20.1	21.0	22.8	23.2	24.7	25.0	24.9
Non-S&E[2]	27.6	27.2	27.3	27.3	27.7	27.9	27.1
Grand total	28.0	27.6	27.6	27.6	28.5	28.5	28.1

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 14. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	7,685	7,830	8,448	9,375	10,099	10,806	11,127
Engineering	1,397	1,416	1,484	1,614	1,764	1,784	1,846
Sciences	6,288	6,414	6,964	7,761	8,335	9,022	9,281
Natural sciences	2,732	2,476	2,538	2,709	2,872	3,146	3,314
Physical science[1]	365	292	391	381	370	464	495
Mathematical science	374	342	380	374	444	457	476
Computer science	1,205	1,074	971	1,092	1,049	1,161	1,241
Biological science	700	658	696	749	883	927	981
Agricultural science	88	110	100	113	126	137	121
Social sciences	3,556	3,938	4,426	5,052	5,463	5,876	5,967
Social science	2,911	3,144	3,547	4,070	4,364	4,644	4,565
Psychology	645	794	879	982	1,099	1,232	1,402
Non-S&E[2]	14,228	14,760	15,790	17,143	18,275	19,300	19,871
Grand total	21,913	22,590	24,238	26,518	28,374	30,106	30,998
	Black recipients from HBCUs						
Total science and engineering	2,112	2,086	2,211	2,450	2,761	2,940	3,190
Engineering	308	331	359	380	430	425	500
Sciences	1,804	1,755	1,852	2,070	2,331	2,515	2,690
Natural sciences	1,056	935	951	972	1,089	1,162	1,260
Physical science[1]	160	127	163	145	150	197	202
Mathematical science	179	134	164	150	196	181	204
Computer science	460	377	333	364	361	381	411
Biological science	206	231	231	238	317	334	385
Agricultural science	51	66	60	75	65	69	58
Social sciences	748	820	901	1,098	1,242	1,353	1,430
Social science	621	657	720	868	989	1,060	1,080
Psychology	127	163	181	230	253	293	350
Non-S&E[2]	3,870	3,980	4,219	4,637	5,106	5,517	5,397
Grand total	5,982	6,066	6,430	7,087	7,867	8,457	8,587
	Percent from HBCUs						
Total science and engineering	27.5	26.6	26.2	26.1	27.3	27.2	28.7
Engineering	22.0	23.4	24.2	23.5	24.4	23.8	27.1
Sciences	28.7	27.4	26.6	26.7	28.0	27.9	29.0
Natural sciences	38.7	37.8	37.5	35.9	37.9	36.9	38.0
Physical science[1]	43.8	43.5	41.7	38.1	40.5	42.5	40.8
Mathematical science	47.9	39.2	43.2	40.1	44.1	39.6	42.9
Computer science	38.2	35.1	34.3	33.3	34.4	32.8	33.1
Biological science	29.4	35.1	33.2	31.8	35.9	36.0	39.2
Agricultural science	58.0	60.0	60.0	66.4	51.6	50.4	47.9
Social sciences	21.0	20.8	20.4	21.7	22.7	23.0	24.0
Social science	21.3	20.9	20.3	21.3	22.7	22.8	23.7
Psychology	19.7	20.5	20.6	23.4	23.0	23.8	25.0
Non-S&E[2]	27.2	27.0	26.7	27.0	27.9	28.6	27.2
Grand total	27.3	26.9	26.5	26.7	27.7	28.1	27.7

1 In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

2 Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

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Table 15. Number of earned bachelor's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	9,700	10,400	11,539	13,056	14,322	15,483	16,401
Engineering	670	656	745	748	813	875	999
Sciences	9,030	9,744	10,794	12,308	13,509	14,608	15,402
Natural sciences	3,273	3,306	3,296	3,692	4,100	4,413	4,707
Physical science[1]	332	358	362	435	466	457	539
Mathematical science	418	378	431	530	521	535	519
Computer science	1,252	1,173	1,026	998	1,164	1,237	1,257
Biological science	1,216	1,336	1,415	1,636	1,856	2,053	2,250
Agricultural science	55	61	62	93	93	131	142
Social sciences	5,757	6,438	7,498	8,616	9,409	10,195	10,695
Social science	3,659	4,082	4,689	5,419	5,890	6,191	6,356
Psychology	2,098	2,356	2,809	3,197	3,519	4,004	4,339
Non-S&E[2]	25,224	26,311	29,232	31,737	33,971	36,727	37,888
Grand total	34,924	36,711	40,771	44,793	48,293	52,210	54,289
	Black recipients from HBCUs						
Total science and engineering	2,942	3,104	3,468	3,913	4,607	4,864	5,171
Engineering	166	193	230	214	270	265	298
Sciences	2,776	2,911	3,238	3,699	4,337	4,599	4,873
Natural sciences	1,457	1,418	1,412	1,627	1,932	1,943	2,124
Physical science[1]	160	169	195	231	240	224	269
Mathematical science	202	173	205	270	267	268	262
Computer science	588	522	415	416	543	523	556
Biological science	487	533	561	668	838	863	972
Agricultural science	20	21	36	42	44	65	65
Social sciences	1,319	1,493	1,826	2,072	2,405	2,656	2,749
Social science	896	994	1,166	1,333	1,518	1,641	1,667
Psychology	423	499	660	739	887	1,015	1,082
Non-S&E[2]	7,001	7,175	8,065	8,709	9,375	10,105	10,231
Grand total	9,943	10,279	11,533	12,622	13,982	14,969	15,402
	Percent from HBCUs						
Total science and engineering	30.3	29.8	30.1	30.0	32.2	31.4	31.5
Engineering	24.8	29.4	30.9	28.6	33.2	30.3	29.8
Sciences	30.7	29.9	30.0	30.1	32.1	31.5	31.6
Natural sciences	44.5	42.9	42.8	44.1	47.1	44.0	45.1
Physical science[1]	48.2	47.2	53.9	53.1	51.5	49.0	49.9
Mathematical science	48.3	45.8	47.6	50.9	51.2	50.1	50.5
Computer science	47.0	44.5	40.4	41.7	46.6	42.3	44.2
Biological science	40.0	39.9	39.6	40.8	45.2	42.0	43.2
Agricultural science	36.4	34.4	58.1	45.2	47.3	49.6	45.8
Social sciences	22.9	23.2	24.4	24.0	25.6	26.1	25.7
Social science	24.5	24.4	24.9	24.6	25.8	26.5	26.2
Psychology	20.2	21.2	23.5	23.1	25.2	25.3	24.9
Non-S&E[2]	27.8	27.3	27.6	27.4	27.6	27.5	27.0
Grand total	28.5	28.0	28.3	28.2	29.0	28.7	28.4

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 16. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	1,652	1,847	2,090	2,356	2,554	2,849	3,339
Engineering	355	387	398	466	564	589	665
Sciences	1,297	1,460	1,692	1,890	1,990	2,260	2,674
Natural sciences	495	527	644	699	716	821	881
Physical science[1]	78	87	73	98	105	127	147
Mathematical science	59	70	100	77	98	109	151
Computer science	198	232	283	316	308	365	347
Biological science	124	110	137	149	135	142	162
Agricultural science	36	28	51	59	70	78	74
Social sciences	802	933	1,048	1,191	1,274	1,439	1,793
Social science	407	462	594	660	730	803	930
Psychology	395	471	454	531	544	636	863
Non-S&E[2]	11,803	12,626	13,767	15,064	16,343	18,087	19,615
Grand total	13,455	14,473	15,857	17,420	18,897	20,936	22,954
	Black recipients from HBCUs						
Total science and engineering	314	339	391	426	453	484	582
Engineering	38	42	37	41	41	43	54
Sciences	276	297	354	385	412	441	528
Natural sciences	143	153	180	188	204	204	260
Physical science[1]	23	24	24	21	36	21	41
Mathematical science	13	17	21	17	23	21	44
Computer science	42	63	59	76	75	87	94
Biological science	47	37	46	47	38	34	48
Agricultural science	18	12	30	27	32	41	33
Social sciences	133	144	174	197	208	237	268
Social science	78	69	114	125	107	126	130
Psychology	55	75	60	72	101	111	138
Non-S&E[2]	2,054	2,019	2,127	2,205	2,326	2,721	2,896
Grand total	2,368	2,358	2,518	2,631	2,779	3,205	3,478
	Percent from HBCUs						
Total science and engineering	19.0	18.4	18.7	18.1	17.7	17.0	17.4
Engineering	10.7	10.9	9.3	8.8	7.3	7.3	8.1
Sciences	21.3	20.3	20.9	20.4	20.7	19.5	19.7
Natural sciences	28.9	29.0	28.0	26.9	28.5	24.8	29.5
Physical science[1]	29.5	27.6	32.9	21.4	34.3	16.5	27.9
Mathematical science	22.0	24.3	21.0	22.1	23.5	19.3	29.1
Computer science	21.2	27.2	20.8	24.1	24.4	23.8	27.1
Biological science	37.9	33.6	33.6	31.5	28.1	23.9	29.6
Agricultural science	50.0	42.9	58.8	45.8	45.7	52.6	44.6
Social sciences	16.6	15.4	16.6	16.5	16.3	16.5	14.9
Social science	19.2	14.9	19.2	18.9	14.7	15.7	14.0
Psychology	13.9	15.9	13.2	13.6	18.6	17.5	16.0
Non-S&E[2]	17.4	16.0	15.4	14.6	14.2	15.0	14.8
Grand total	17.6	16.3	15.9	15.1	14.7	15.3	15.2

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95

Table 17. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	878	950	1,028	1,166	1,253	1,376	1,534
Engineering	262	287	299	332	407	422	464
Sciences	616	663	729	834	846	954	1,070
Natural sciences	290	307	338	382	386	435	434
Physical science[1]	56	61	43	66	58	74	86
Mathematical science	32	37	53	44	48	62	64
Computer science	119	140	150	175	193	205	199
Biological science	59	51	58	61	47	48	50
Agricultural science	24	18	34	36	40	46	35
Social sciences	326	356	391	452	460	519	636
Social science	206	223	262	315	345	358	418
Psychology	120	133	129	137	115	161	218
Non-S&E[2]	4,086	4,219	4,591	4,628	5,219	5,631	6,102
Grand total	4,964	5,169	5,619	5,794	6,472	7,007	7,636
	Black recipients from HBCUs						
Total science and engineering	154	164	172	195	191	208	230
Engineering	26	32	29	27	23	28	33
Sciences	128	132	143	168	168	180	197
Natural sciences	76	84	90	100	106	98	105
Physical science[1]	14	14	14	16	19	10	24
Mathematical science	8	9	7	7	9	12	20
Computer science	24	35	33	46	44	40	36
Biological science	19	17	15	15	11	7	12
Agricultural science	11	9	21	16	23	29	13
Social sciences	52	48	53	68	62	82	92
Social science	39	28	39	47	40	49	62
Psychology	13	20	14	21	22	33	30
Non-S&E[2]	576	582	594	587	631	734	743
Grand total	730	746	766	782	822	942	973
	Percent from HBCUs						
Total science and engineering	17.5	17.3	16.7	16.7	15.2	15.1	15.0
Engineering	9.9	11.1	9.7	8.1	5.7	6.6	7.1
Sciences	20.8	19.9	19.6	20.1	19.9	18.9	18.4
Natural sciences	26.2	27.4	26.6	26.2	27.5	22.5	24.2
Physical science[1]	25.0	23.0	32.6	24.2	32.8	13.5	27.9
Mathematical science	25.0	24.3	13.2	15.9	18.8	19.4	31.3
Computer science	20.2	25.0	22.0	26.3	22.8	19.5	18.1
Biological science	32.2	33.3	25.9	24.6	23.4	14.6	24.0
Agricultural science	45.8	50.0	61.8	44.4	57.5	63.0	37.1
Social sciences	16.0	13.5	13.6	15.0	13.5	15.8	14.5
Social science	18.9	12.6	14.9	14.9	11.6	13.7	14.8
Psychology	10.8	15.0	10.9	15.3	19.1	20.5	13.8
Non-S&E[2]	14.1	13.8	12.9	12.7	12.1	13.0	12.2
Grand total	14.7	14.4	13.6	13.5	12.7	13.4	12.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 18. Number of earned master's degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	774	897	1,062	1,190	1,301	1,473	1,805
Engineering	93	100	99	134	157	167	201
Sciences	681	797	963	1,056	1,144	1,306	1,604
Natural sciences	205	220	306	317	330	386	447
Physical science[1]	22	26	30	32	47	53	61
Mathematical science	27	33	47	33	50	47	87
Computer science	79	92	133	141	115	160	148
Biological science	65	59	79	88	88	94	112
Agricultural science	12	10	17	23	30	32	39
Social sciences	476	577	657	739	814	920	1,157
Social science	201	239	332	345	385	445	512
Psychology	275	338	325	394	429	475	645
Non-S&E[2]	7,717	8,407	9,176	10,436	11,124	12,456	13,513
Grand total	8,491	9,304	10,238	11,626	12,425	13,929	15,318
	Black recipients from HBCUs						
Total science and engineering	160	175	219	231	262	276	352
Engineering	12	10	8	14	18	15	21
Sciences	148	165	211	217	244	261	331
Natural sciences	67	69	90	88	98	106	155
Physical science[1]	9	10	10	5	17	11	17
Mathematical science	5	8	14	10	14	9	24
Computer science	18	28	26	30	31	47	58
Biological science	28	20	31	32	27	27	36
Agricultural science	7	3	9	11	9	12	20
Social sciences	81	96	121	129	146	155	176
Social science	39	41	75	78	67	77	68
Psychology	42	55	46	51	79	78	108
Non-S&E[2]	1,478	1,437	1,533	1,618	1,695	1,987	2,153
Grand total	1,638	1,612	1,752	1,849	1,957	2,263	2,505
	Percent from HBCUs						
Total science and engineering	20.7	19.5	20.6	19.4	20.1	18.7	19.5
Engineering	12.9	10.0	8.1	10.4	11.5	9.0	10.4
Sciences	21.7	20.7	21.9	20.5	21.3	20.0	20.6
Natural sciences	32.7	31.4	29.4	27.8	29.7	27.5	34.7
Physical science[1]	40.9	38.5	33.3	15.6	36.2	20.8	27.9
Mathematical science	18.5	24.2	29.8	30.3	28.0	19.1	27.6
Computer science	22.8	30.4	19.5	21.3	27.0	29.4	39.2
Biological science	43.1	33.9	39.2	36.4	30.7	28.7	32.1
Agricultural science	58.3	30.0	52.9	47.8	30.0	37.5	51.3
Social sciences	17.0	16.6	18.4	17.5	17.9	16.8	15.2
Social science	19.4	17.2	22.6	22.6	17.4	17.3	13.3
Psychology	15.3	16.3	14.2	12.9	18.4	16.4	16.7
Non-S&E[2]	19.2	17.1	16.7	15.5	15.2	16.0	15.9
Grand total	19.3	17.3	17.1	15.9	15.8	16.2	16.4

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial-ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

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Table 19. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to blacks, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	366	373	459	407	468	496	557
Engineering	33	40	55	49	50	54	71
Sciences	333	333	404	358	418	442	486
Natural sciences	114	103	130	115	149	170	184
Physical science[1]	35	33	34	31	45	52	46
Mathematical science	8	4	11	4	8	11	5
Computer science	1	1	8	5	6	10	11
Biological science	56	50	60	61	74	75	105
Agricultural science	14	15	17	14	16	22	17
Social sciences	219	230	274	243	269	272	302
Social science	122	115	144	137	150	148	152
Psychology	97	115	130	106	119	124	150
Non-S&E[2]	596	676	701	706	809	778	898
Grand total	962	1,049	1,160	1,113	1,277	1,274	1,455
	Black recipients from HBCUs						
Total science and engineering	34	35	48	42	59	49	56
Engineering	1	0	3	2	0	4	1
Sciences	33	35	45	40	59	45	55
Natural sciences	15	14	16	11	25	14	26
Physical science[1]	3	4	5	0	6	3	10
Mathematical science	3	0	0	0	0	2	0
Computer science	0	0	0	0	0	0	0
Biological science	9	10	11	11	18	9	15
Agricultural science	0	0	0	0	1	0	1
Social sciences	18	21	29	29	34	31	29
Social science	12	13	10	19	22	11	11
Psychology	6	8	19	10	12	20	18
Non-S&E[2]	52	105	59	61	75	82	79
Grand total	86	140	107	103	134	131	135
	Percent from HBCUs						
Total science and engineering	9.3	9.4	10.5	10.3	12.6	9.9	10.1
Engineering	3.0	0	5.5	4.1	0	7.4	1.4
Sciences	9.9	10.5	11.1	11.2	14.1	10.2	11.3
Natural sciences	13.2	13.6	12.3	9.6	16.8	8.2	14.1
Physical science[1]	8.6	12.1	14.7	0	13.3	5.8	21.7
Mathematical science	37.5	0	0	0	0	18.2	0
Computer science	0	0	0	0	0	0	0
Biological science	16.1	20.0	18.3	18.0	24.3	12.0	14.3
Agricultural science	0	0	0	0	6.3	0	5.9
Social sciences	8.2	9.1	10.6	11.9	12.6	11.4	9.6
Social science	9.8	11.3	6.9	13.9	14.7	7.4	7.2
Psychology	6.2	7.0	14.6	9.4	10.1	16.1	12.0
Non-S&E[2]	8.7	15.5	8.4	8.6	9.3	10.5	8.8
Grand total	8.9	13.3	9.2	9.3	10.5	10.3	9.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTE: Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 20. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black men, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	213	225	266	237	260	282	289
Engineering	30	34	47	43	39	41	56
Sciences	183	191	219	194	221	241	233
Natural sciences	77	71	84	79	98	102	114
Physical science[1]	27	24	28	24	35	38	28
Mathematical science	5	3	7	4	7	8	4
Computer science	0	1	4	4	2	8	7
Biological science	32	29	29	37	42	32	64
Agricultural science	13	14	16	10	12	16	11
Social sciences	106	120	135	115	123	139	119
Social science	70	77	91	87	79	93	81
Psychology	36	43	44	28	44	46	38
Non-S&E[2]	239	254	282	280	317	270	319
Grand total	452	479	548	517	577	552	608
	Black recipients from HBCUs						
Total science and engineering	20	22	28	22	29	27	31
Engineering	1	0	3	2	0	3	1
Sciences	19	22	25	20	29	24	30
Natural sciences	9	7	11	4	14	6	16
Physical science[1]	2	2	4	0	5	2	6
Mathematical science	2	0	0	0	0	1	0
Computer science	0	0	0	0	0	0	0
Biological science	5	5	7	4	8	3	9
Agricultural science	0	0	0	0	1	0	1
Social sciences	10	15	14	16	15	18	14
Social science	9	11	8	14	12	10	8
Psychology	1	4	6	2	3	8	6
Non-S&E[2]	20	39	26	25	26	27	25
Grand total	40	61	54	47	55	54	56
	Percent from HBCUs						
Total science and engineering	9.4	9.8	10.5	9.3	11.2	9.6	10.7
Engineering	3.3	0	6.4	4.7	0	7.3	1.8
Sciences	10.4	11.5	11.4	10.3	13.1	10.0	12.9
Natural sciences	11.7	9.9	13.1	5.1	14.3	5.9	14.0
Physical science[1]	7.4	8.3	14.3	0	14.3	5.3	21.4
Mathematical science	40.0	0	0	0	0	12.5	0
Computer science	0	0	0	0	0	0	0
Biological science	15.6	17.2	24.1	10.8	19.0	9.4	14.1
Agricultural science	0	0	0	0	8.3	0	9.1
Social sciences	9.4	12.5	10.4	13.9	12.2	12.9	11.8
Social science	12.9	14.3	8.8	16.1	15.2	10.8	9.9
Psychology	2.8	9.3	13.6	7.1	6.8	17.4	15.8
Non-S&E[2]	8.4	15.4	9.2	8.9	8.2	10.0	7.8
Grand total	8.8	12.7	9.9	9.1	9.5	9.8	9.2

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTE: Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 21. Number of earned doctoral degrees conferred by historically black colleges and universities (HBCUs) to black women, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all black recipients						
Total science and engineering	153	148	193	170	208	214	268
Engineering	3	6	8	6	11	13	15
Sciences	150	142	185	164	197	201	253
Natural sciences	37	32	46	36	51	68	70
Physical science[1]	8	9	6	7	10	14	18
Mathematical science	3	1	4	0	1	3	1
Computer science	1	0	4	1	4	2	4
Biological science	24	21	31	24	32	43	41
Agricultural science	1	1	1	4	4	6	6
Social sciences	113	110	139	128	146	133	183
Social science	52	38	53	50	71	55	71
Psychology	61	72	86	78	75	78	112
Non-S&E[2]	357	422	419	426	492	508	579
Grand total	510	570	612	596	700	722	847
	Black recipients from HBCUs						
Total science and engineering	14	13	20	20	30	22	25
Engineering	0	0	0	0	0	1	0
Sciences	14	13	20	20	30	21	25
Natural sciences	6	7	5	7	11	8	10
Physical science[1]	1	2	1	0	1	1	4
Mathematical science	1	0	0	0	0	1	0
Computer science	0	0	0	0	0	0	0
Biological science	4	5	4	7	10	6	6
Agricultural science	0	0	0	0	0	0	0
Social sciences	8	6	15	13	19	13	15
Social science	3	2	2	5	10	1	3
Psychology	5	4	13	8	9	12	12
Non-S&E[2]	32	66	33	36	49	55	54
Grand total	46	79	53	56	79	77	79
	Percent from HBCUs						
Total science and engineering	9.2	8.8	10.4	11.8	14.4	10.3	9.3
Engineering	.0	.0	.0	.0	.0	7.7	.0
Sciences	9.3	9.2	10.8	12.2	15.2	10.4	9.9
Natural sciences	16.2	21.9	10.9	19.4	21.6	11.8	14.3
Physical science[1]	12.5	22.2	16.7	.0	10.0	7.1	22.2
Mathematical science	33.3	.0	.0	.0	.0	33.3	.0
Computer science	.0	.0	.0	.0	.0	.0	.0
Biological science	16.7	23.8	12.9	29.2	31.3	14.0	14.6
Agricultural science	.0	.0	.0	.0	.0	.0	.0
Social sciences	7.1	5.5	10.8	10.2	13.0	9.8	8.2
Social science	5.8	5.3	3.8	10.0	14.1	1.8	4.2
Psychology	8.2	5.6	15.1	10.3	12.0	15.4	10.7
Non-S&E[2]	9.0	15.6	7.9	8.5	10.0	10.8	9.3
Grand total	9.0	13.9	8.7	9.4	11.3	10.7	9.3

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTE: Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 22. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	13,327	13,918	15,351	17,391	18,442	20,529	22,190
Engineering	2,561	2,511	2,566	2,733	2,961	3,143	3,651
Sciences	10,766	11,407	12,785	14,658	15,481	17,386	18,539
Natural sciences	4,417	4,357	4,705	4,892	5,034	5,648	6,119
Physical science[1]	563	522	533	546	599	733	800
Mathematical science	373	413	480	482	470	543	536
Computer science	1,195	1,085	1,215	1,173	1,096	1,135	1,307
Biological science	2,090	2,119	2,264	2,477	2,652	2,901	3,090
Agricultural science	196	218	213	214	217	336	386
Social sciences	6,349	7,050	8,080	9,766	10,447	11,738	12,420
Social science	4,197	4,645	5,334	6,519	6,860	7,748	7,877
Psychology	2,152	2,405	2,746	3,247	3,587	3,990	4,543
Non-S&E[2]	28,034	29,946	33,676	35,616	39,403	42,154	44,501
Grand total	41,361	43,864	49,027	53,007	57,845	62,683	66,691
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	3,056	2,983	2,952	3,007	3,001	3,205	3,501
Engineering	651	626	554	686	697	742	988
Sciences	2,405	2,357	2,398	2,321	2,304	2,463	2,513
Natural sciences	1,479	1,447	1,446	1,339	1,300	1,374	1,459
Physical science[1]	184	184	154	172	172	227	311
Mathematical science	69	69	108	34	41	27	27
Computer science	326	261	327	296	254	258	257
Biological science	858	862	797	837	833	808	812
Agricultural science	42	71	60	0	0	54	52
Social sciences	926	910	952	982	1,004	1,089	1,054
Social science	501	495	523	496	508	590	554
Psychology	425	415	429	486	496	499	500
Non-S&E[2]	9,146	9,192	9,558	9,748	10,358	10,249	10,291
Grand total	12,202	12,175	12,510	12,755	13,359	13,454	13,792
	Percent from institutions in Puerto Rico						
Total science and engineering	22.9	21.4	19.2	17.3	16.3	15.6	15.8
Engineering	25.4	24.9	21.6	25.1	23.5	23.6	27.1
Sciences	22.3	20.7	18.8	15.8	14.9	14.2	13.6
Natural sciences	33.5	33.2	30.7	27.4	25.8	24.3	23.8
Physical science[1]	32.7	35.2	28.9	31.5	28.7	31.0	38.9
Mathematical science	18.5	16.7	22.5	7.1	8.7	5.0	5.0
Computer science	27.3	24.1	26.9	25.2	23.2	22.7	19.7
Biological science	41.1	40.7	35.2	33.8	31.4	27.9	26.3
Agricultural science	21.4	32.6	28.2	0	0	16.1	13.5
Social sciences	14.6	12.9	11.8	10.1	9.6	9.3	8.5
Social science	11.9	10.7	9.8	7.6	7.4	7.6	7.0
Psychology	19.7	17.3	15.6	15.0	13.8	12.5	11.0
Non-S&E[2]	32.6	30.7	28.4	27.4	26.3	24.3	23.1
Grand total	29.5	27.8	25.5	24.1	23.1	21.5	20.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95

Table 23. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	7,318	7,434	7,888	8,730	9,160	10,190	11,031
Engineering	2,100	2,035	2,039	2,187	2,355	2,495	2,895
Sciences	5,218	5,399	5,849	6,543	6,805	7,695	8,136
Natural sciences	2,432	2,328	2,458	2,497	2,608	2,925	3,196
Physical science[1]	362	311	318	326	361	415	437
Mathematical science	224	249	259	279	273	300	315
Computer science	750	669	738	724	700	719	876
Biological science	965	955	1,019	1,043	1,144	1,298	1,340
Agricultural science	131	144	124	125	130	193	228
Social sciences	2,786	3,071	3,391	4,046	4,197	4,770	4,940
Social science	2,153	2,384	2,634	3,220	3,269	3,774	3,774
Psychology	633	687	757	826	928	996	1,166
Non-S&E[2]	10,684	11,249	12,893	13,296	14,665	15,670	16,844
Grand total	18,002	18,683	20,781	22,026	23,825	25,860	27,875
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	1,559	1,462	1,365	1,362	1,339	1,426	1,657
Engineering	525	481	398	498	511	534	743
Sciences	1,034	981	967	864	828	892	914
Natural sciences	671	626	612	520	496	540	609
Physical science[1]	91	90	70	78	70	86	131
Mathematical science	39	47	50	20	24	15	16
Computer science	197	143	170	159	147	149	164
Biological science	322	302	293	263	255	258	265
Agricultural science	22	44	29	0	0	32	33
Social sciences	363	355	355	344	332	352	305
Social science	257	252	245	243	211	248	220
Psychology	106	103	110	101	121	104	85
Non-S&E[2]	2,814	2,804	3,204	2,890	3,030	3,087	3,207
Grand total	4,373	4,266	4,569	4,252	4,369	4,513	4,864
	Percent from institutions in Puerto Rico						
Total science and engineering	21.3	19.7	17.3	15.6	14.6	14.0	15.0
Engineering	25.0	23.6	19.5	22.8	21.7	21.4	25.7
Sciences	19.8	18.2	16.5	13.2	12.2	11.6	11.2
Natural sciences	27.6	26.9	24.9	20.8	19.0	18.5	19.1
Physical science[1]	25.1	28.9	22.0	23.9	19.4	20.7	30.0
Mathematical science	17.4	18.9	19.3	7.2	8.8	5.0	5.1
Computer science	26.3	21.4	23.0	22.0	21.0	20.7	18.7
Biological science	33.4	31.6	28.8	25.2	22.3	19.9	19.8
Agricultural science	16.8	30.6	23.4	.0	0	16.6	14.5
Social sciences	13.0	11.6	10.5	8.5	7.9	7.4	6.2
Social science	11.9	10.6	9.3	7.5	6.5	6.6	5.8
Psychology	16.7	15.0	14.5	12.2	13.0	10.4	7.3
Non-S&E[2]	26.3	24.9	24.9	21.7	20.7	19.7	19.0
Grand total	24.3	22.8	22.0	19.3	18.3	17.5	17.4

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95

Table 24. Number of earned bachelor's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	6,009	6,484	7,463	8,661	9,282	10,339	11,159
Engineering	461	476	527	546	606	648	756
Sciences	5,548	6,008	6,936	8,115	8,676	9,691	10,403
Natural sciences	1,985	2,029	2,247	2,395	2,426	2,723	2,923
Physical science[1]	201	211	215	220	238	318	363
Mathematical science	149	164	221	203	197	243	221
Computer science	445	416	477	449	396	416	431
Biological science	1,125	1,164	1,245	1,434	1,508	1,603	1,750
Agricultural science	65	74	89	89	87	143	158
Social sciences	3,563	3,979	4,689	5,720	6,250	6,968	7,480
Social science	2,044	2,261	2,700	3,299	3,591	3,974	4,103
Psychology	1,519	1,718	1,989	2,421	2,659	2,994	3,377
Non-S&E[2]	17,350	18,697	20,783	22,320	24,738	26,484	27,657
Grand total	23,359	25,181	28,246	30,981	34,020	36,823	38,816
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	1,497	1,521	1,587	1,645	1,662	1,779	1,844
Engineering	126	145	156	188	186	208	245
Sciences	1,371	1,376	1,431	1,457	1,476	1,571	1,599
Natural sciences	808	821	834	819	804	834	850
Physical science[1]	93	94	84	94	102	141	180
Mathematical science	30	22	58	14	17	12	11
Computer science	129	118	157	137	107	109	93
Biological science	536	560	504	574	578	550	547
Agricultural science	20	27	31	0	0	22	19
Social sciences	563	555	597	638	672	737	749
Social science	244	243	278	253	297	342	334
Psychology	319	312	319	385	375	395	415
Non-S&E[2]	6,332	6,388	6,354	6,858	7,328	7,162	7,084
Grand total	7,829	7,909	7,941	8,503	8,990	8,941	8,928
	Percent from institutions in Puerto Rico						
Total science and engineering	24.9	23.5	21.3	19.0	17.9	17.2	16.5
Engineering	27.3	30.5	29.6	34.4	30.7	32.1	32.4
Sciences	24.7	22.9	20.6	18.0	17.0	16.2	15.4
Natural sciences	40.7	40.5	37.1	34.2	33.1	30.6	29.1
Physical science[1]	46.3	44.5	39.1	42.7	42.9	44.3	49.6
Mathematical science	20.1	13.4	26.2	6.9	8.6	4.9	5.0
Computer science	29.0	28.4	32.9	30.5	27.0	26.2	21.6
Biological science	47.6	48.1	40.5	40.0	38.3	34.3	31.3
Agricultural science	30.8	36.5	34.8	.0	0	15.4	12.0
Social sciences	15.8	13.9	12.7	11.2	10.8	10.6	10.0
Social science	11.9	10.7	10.3	7.7	8.3	8.6	8.1
Psychology	21.0	18.2	16.0	15.9	14.1	13.2	12.3
Non-S&E[2]	36.5	34.2	30.6	30.7	29.6	27.0	25.6
Grand total	33.5	31.4	28.1	27.4	26.4	24.3	23.0

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

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Table 25. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	1,585	1,587	1,736	1,806	2,092	2,514	2,585
Engineering	468	446	468	488	581	719	711
Sciences	1,117	1,141	1,268	1,318	1,511	1,795	1,874
Natural sciences	444	431	494	503	574	680	665
Physical science[1]	92	98	96	93	114	114	129
Mathematical science	34	51	85	66	78	75	75
Computer science	144	118	128	149	162	169	198
Biological science	126	120	136	146	151	138	167
Agricultural science	48	44	49	49	69	184	96
Social sciences	673	710	774	815	937	1,115	1,209
Social science	313	341	383	396	474	557	553
Psychology	360	369	391	419	463	558	656
Non-S&E[2]	6,548	6,908	7,948	8,450	9,279	10,663	11,320
Grand total	8,133	8,495	9,684	10,256	11,371	13,177	13,905
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	214	207	214	140	160	311	289
Engineering	22	32	23	0	1	86	64
Sciences	192	175	191	140	159	225	225
Natural sciences	62	65	83	27	47	68	72
Physical science[1]	19	21	16	9	12	18	17
Mathematical science	6	7	17	7	14	8	9
Computer science	7	0	0	0	4	5	6
Biological science	17	30	39	11	17	18	20
Agricultural science	13	7	11	0	0	19	20
Social sciences	130	110	108	113	112	157	153
Social science	25	25	31	32	30	36	17
Psychology	105	85	77	81	82	121	136
Non-S&E[2]	1,033	855	1,009	1,084	1,081	1,371	1,234
Grand total	1,247	1,062	1,223	1,224	1,241	1,682	1,523
	Percent from institutions in Puerto Rico						
Total science and engineering	13.5	13.0	12.3	7.8	7.6	12.4	11.2
Engineering	4.7	7.2	4.9	0	2	12.0	9.0
Sciences	17.2	15.3	15.1	10.6	10.5	12.5	12.0
Natural sciences	14.0	15.1	16.8	5.4	8.2	10.0	10.8
Physical science[1]	20.7	21.4	16.7	9.7	10.5	15.8	13.2
Mathematical science	17.6	13.7	20.0	10.6	17.9	10.7	12.0
Computer science	4.9	0	0	0	2.5	3.0	3.0
Biological science	13.5	25.0	28.7	7.5	11.3	13.0	12.0
Agricultural science	27.1	15.9	22.4	0	0	10.3	20.8
Social sciences	19.3	15.5	14.0	13.9	12.0	14.1	12.7
Social science	8.0	7.3	8.1	8.1	6.3	6.5	3.1
Psychology	29.2	23.0	19.7	19.3	17.7	21.7	20.7
Non-S&E[2]	15.8	12.4	12.7	12.8	11.6	12.9	10.9
Grand total	15.3	12.5	12.6	11.9	10.9	12.8	11.0

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 26. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	970	959	992	1,066	1,255	1,427	1,458
Engineering	394	373	378	408	480	582	578
Sciences	576	586	614	658	775	845	880
Natural sciences	282	275	294	309	341	414	423
Physical science[1]	65	63	73	64	76	80	88
Mathematical science	21	33	52	47	50	44	53
Computer science	100	93	84	98	104	120	151
Biological science	62	61	54	69	76	65	75
Agricultural science	34	25	31	31	35	105	56
Social sciences	294	311	320	349	434	431	457
Social science	176	178	196	218	282	290	283
Psychology	118	133	124	131	152	141	174
Non-S&E[2]	2,627	2,754	3,132	3,315	3,620	4,056	4,267
Grand total	3,597	3,713	4,124	4,381	4,875	5,483	5,725
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	103	103	80	48	56	154	130
Engineering	21	26	15	0	1	68	51
Sciences	82	77	65	48	55	86	79
Natural sciences	35	33	39	12	23	43	47
Physical science[1]	14	11	9	4	6	15	14
Mathematical science	2	3	9	4	11	5	6
Computer science	4	0	0	0	1	3	3
Biological science	5	14	13	4	5	8	10
Agricultural science	10	5	8	0	0	12	14
Social sciences	47	44	26	36	32	43	32
Social science	16	10	8	14	16	25	9
Psychology	31	34	18	22	16	18	23
Non-S&E[2]	313	262	306	350	346	432	370
Grand total	416	365	386	398	402	586	500
	Percent from institutions in Puerto Rico						
Total science and engineering	10.6	10.7	8.1	4.5	4.5	10.8	8.9
Engineering	5.3	7.0	4.0	0	.2	11.7	8.8
Sciences	14.2	13.1	10.6	7.3	7.1	10.2	9.0
Natural sciences	12.4	12.0	13.3	3.9	6.7	10.4	11.1
Physical science[1]	21.5	17.5	12.3	6.3	7.9	18.8	15.9
Mathematical science	9.5	9.1	17.3	8.5	22.0	11.4	11.3
Computer science	4.0	.0	.0	0	1.0	2.5	2.0
Biological science	8.1	23.0	24.1	5.8	6.6	12.3	13.3
Agricultural science	29.4	20.0	25.8	0	0	11.4	25.0
Social sciences	16.0	14.1	8.1	10.3	7.4	10.0	7.0
Social science	9.1	5.6	4.1	6.4	5.7	8.6	3.2
Psychology	26.3	25.6	14.5	16.8	10.5	12.8	13.2
Non-S&E[2]	11.9	9.5	9.8	10.6	9.6	10.7	8.7
Grand total	11.6	9.8	9.4	9.1	8.2	10.7	8.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

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Table 27. Number of earned master's degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	615	628	744	740	837	1,087	1,127
Engineering	74	73	90	80	101	137	133
Sciences	541	555	654	660	736	950	994
Natural sciences	162	156	200	194	233	266	242
Physical science[1]	27	35	23	29	38	34	41
Mathematical science	13	18	33	19	28	31	22
Computer science	44	25	44	51	58	49	47
Biological science	64	59	82	77	75	73	92
Agricultural science	14	19	18	18	34	79	40
Social sciences	379	399	454	466	503	684	752
Social science	137	163	187	178	192	267	270
Psychology	242	236	267	288	311	417	482
Non-S&E[2]	3,921	4,154	4,816	5,135	5,659	6,607	7,053
Grand total	4,536	4,782	5,560	5,875	6,496	7,694	8,180
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	111	104	134	92	104	157	159
Engineering	1	6	8	0	0	18	13
Sciences	110	98	126	92	104	139	146
Natural sciences	27	32	44	15	24	25	25
Physical science[1]	5	10	7	5	6	3	3
Mathematical science	4	4	8	3	3	3	3
Computer science	3	0	0	0	3	2	3
Biological science	12	16	26	7	12	10	10
Agricultural science	3	2	3	0	0	7	6
Social sciences	83	66	82	77	80	114	121
Social science	9	15	23	18	14	11	8
Psychology	74	51	59	59	66	103	113
Non-S&E[2]	720	593	703	734	735	939	864
Grand total	831	697	837	826	839	1,096	1,023
	Percent from institutions in Puerto Rico						
Total science and engineering	18.0	16.6	18.0	12.4	12.4	14.4	14.1
Engineering	1.4	8.2	8.9	0	0	13.1	9.8
Sciences	20.3	17.7	19.3	13.9	14.1	14.6	14.7
Natural sciences	16.7	20.5	22.0	7.7	10.3	9.4	10.3
Physical science[1]	18.5	28.6	30.4	17.2	15.8	8.8	7.3
Mathematical science	30.8	22.2	24.2	15.8	10.7	9.7	13.6
Computer science	6.8	0	0	0	5.2	4.1	6.4
Biological science	18.8	27.1	31.7	9.1	16.0	13.7	10.9
Agricultural science	21.4	10.5	16.7	0	0	8.9	15.0
Social sciences	21.9	16.5	18.1	16.5	15.9	16.7	16.1
Social science	6.6	9.2	12.3	10.1	7.3	4.1	3.0
Psychology	30.6	21.6	22.1	20.5	21.2	24.7	23.4
Non-S&E[2]	18.4	14.3	14.6	14.3	13.0	14.2	12.3
Grand total	18.3	14.6	15.1	14.1	12.9	14.2	12.5

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95

Table 28. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanics, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	382	468	492	513	542	548	568
Engineering	47	54	60	71	66	66	77
Sciences	335	414	432	442	476	482	491
Natural sciences	172	212	212	228	249	274	253
Physical science[1]	68	85	81	88	92	98	85
Mathematical science	11	10	9	12	16	13	15
Computer science	4	5	12	8	7	7	6
Biological science	71	89	95	102	114	131	126
Agricultural science	18	23	15	18	20	25	21
Social sciences	163	202	220	214	227	208	238
Social science	70	93	98	81	96	75	93
Psychology	93	109	122	133	131	133	145
Non-S&E[2]	312	369	375	396	431	481	487
Grand total	694	837	867	909	973	1,029	1,055
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	12	18	12	26	14	30	35
Engineering	0	0	0	0	0	0	0
Sciences	12	18	12	26	14	30	35
Natural sciences	5	8	5	5	6	12	4
Physical science[1]	4	6	3	4	4	7	4
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	1	2	2	1	2	5	0
Agricultural science	0	0	0	0	0	0	0
Social sciences	7	10	7	21	8	18	31
Social science	1	0	1	5	0	1	0
Psychology	6	10	6	16	8	17	31
Non-S&E[2]	5	15	13	24	17	27	15
Grand total	17	33	25	50	31	57	50
	Percent from institutions in Puerto Rico						
Total science and engineering	3.1	3.8	2.4	5.1	2.6	5.5	6.2
Engineering	.0	0	0	0	0	0	0
Sciences	3.6	4.3	2.8	5.9	2.9	6.2	7.1
Natural sciences	2.9	3.8	2.4	2.2	2.4	4.4	1.6
Physical science[1]	5.9	7.1	3.7	4.5	4.3	7.1	4.7
Mathematical science	.0	0	.0	0	0	0	0
Computer science	.0	0	0	0	0	0	0
Biological science	1.4	2.2	2.1	1.0	1.8	3.8	0
Agricultural science	.0	0	0	0	0	0	0
Social sciences	4.3	5.0	3.2	9.8	3.5	8.7	13.0
Social science	1.4	0	1.0	6.2	0	1.3	0
Psychology	6.5	9.2	4.9	12.0	6.1	12.8	21.4
Non-S&E[2]	1.6	4.1	3.5	6.1	3.9	5.6	3.1
Grand total	2.4	3.9	2.9	5.5	3.2	5.5	4.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTE: Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 29. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic men, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	227	290	306	308	320	318	336
Engineering	39	45	50	56	54	60	66
Sciences	188	245	256	252	266	258	270
Natural sciences	120	138	152	151	162	174	166
Physical science[1]	47	55	68	62	70	75	58
Mathematical science	7	6	5	9	14	10	11
Computer science	1	4	11	7	6	7	2
Biological science	50	56	56	59	57	69	79
Agricultural science	15	17	12	14	15	13	16
Social sciences	68	107	104	101	104	84	104
Social science	38	55	52	46	59	41	56
Psychology	30	52	52	55	45	43	48
Non-S&E[2]	149	159	152	174	197	199	200
Grand total	376	449	458	482	517	517	536
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	3	6	3	11	7	11	12
Engineering	0	0	0	0	0	0	0
Sciences	3	6	3	11	7	11	12
Natural sciences	2	2	2	4	4	6	3
Physical science[1]	2	1	2	3	2	5	3
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	0	1	0	1	2	1	0
Agricultural science	0	0	0	0	0	0	0
Social sciences	1	4	1	7	3	5	9
Social science	0	0	0	0	0	0	0
Psychology	1	4	1	7	3	5	9
Non-S&E[2]	2	3	4	3	3	7	3
Grand total	5	9	7	14	10	18	15
	Percent from institutions in Puerto Rico						
Total science and engineering	1.3	2.1	1.0	3.6	2.2	3.5	3.6
Engineering	0	0	0	0	0	0	0
Sciences	1.6	2.4	1.2	4.4	2.6	4.3	4.4
Natural sciences	1.7	1.4	1.3	2.6	2.5	3.4	1.8
Physical science[1]	4.3	1.8	2.9	4.8	2.9	6.7	5.2
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	0	1.8	0	1.7	3.5	1.4	0
Agricultural science	0	0	0	0	0	0	0
Social sciences	1.5	3.7	1.0	6.9	2.9	6.0	8.7
Social science	0	0	0	0	0	0	0
Psychology	3.3	7.7	1.9	12.7	6.7	11.6	18.8
Non-S&E[2]	1.3	1.9	2.6	1.7	1.5	3.5	1.5
Grand total	1.3	2.0	1.5	2.9	1.9	3.5	2.8

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTE: Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 30. Number of earned doctoral degrees conferred by institutions in Puerto Rico to Hispanic women, by field: 1989-95

Field	1989	1990	1991	1992	1993	1994	1995
	Total, all Hispanic recipients						
Total science and engineering	155	178	186	205	222	230	232
Engineering	8	9	10	15	12	6	11
Sciences	147	169	176	190	210	224	221
Natural sciences	52	74	60	77	87	100	87
Physical science[1]	21	30	13	26	22	23	27
Mathematical science	4	4	4	3	2	3	4
Computer science	3	1	1	1	1	0	4
Biological science	21	33	39	43	57	62	47
Agricultural science	3	6	3	4	5	12	5
Social sciences	95	95	116	113	123	124	134
Social science	32	38	46	35	37	34	37
Psychology	63	57	70	78	86	90	97
Non-S&E[2]	163	210	223	222	234	282	287
Grand total	318	388	409	427	456	512	519
	Hispanic recipients from institutions in Puerto Rico						
Total science and engineering	9	12	9	15	7	19	23
Engineering	0	0	0	0	0	0	0
Sciences	9	12	9	15	7	19	23
Natural sciences	3	6	3	1	2	6	1
Physical science[1]	2	5	1	1	2	2	1
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	1	1	2	0	0	4	0
Agricultural science	0	0	0	0	0	0	0
Social sciences	6	6	6	14	5	13	22
Social science	1	0	1	5	0	1	0
Psychology	5	6	5	9	5	12	22
Non-S&E[2]	3	12	9	21	14	20	12
Grand total	12	24	18	36	21	39	35
	Percent from institutions in Puerto Rico						
Total science and engineering	5.8	6.7	4.8	7.3	3.2	8.3	9.9
Engineering	0	0	0	0	0	0	0
Sciences	6.1	7.1	5.1	7.9	3.3	8.5	10.4
Natural sciences	5.8	8.1	5.0	1.3	2.3	6.0	1.1
Physical science[1]	9.5	16.7	7.7	3.8	9.1	8.7	3.7
Mathematical science	0	0	0	0	0	0	0
Computer science	0	0	0	0	0	0	0
Biological science	4.8	3.0	5.1	0	0	6.5	0
Agricultural science	0	0	0	0	0	0	0
Social sciences	6.3	6.3	5.2	12.4	4.1	10.5	16.4
Social science	3.1	0	2.2	14.3	0	2.9	0
Psychology	7.9	10.5	7.1	11.5	5.8	13.3	22.7
Non-S&E[2]	1.8	5.7	4.0	9.5	6.0	7.1	4.2
Grand total	3.8	6.2	4.4	8.4	4.6	7.6	6.7

[1] In this report, "Physical science" includes earth, atmospheric, and ocean sciences, as well as physics, astronomy, and chemistry.

[2] Non-S&E refers to non-science and non-engineering.

NOTE: Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates.

Table 31. Number of earned bachelor's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	20,098	19,150	18,294	17,113	16,987	16,654	16,542
U.S. citizens and permanent residents, total[1]	19,439	18,423	17,582	16,597	16,546	16,161	15,992
White, non-Hispanics	16,156	15,251	14,279	13,286	13,245	12,909	12,616
Asians	839	755	768	778	768	720	727
Underrepresented minorities, total	1,947	2,053	2,033	2,074	2,096	2,160	2,317
Black, non-Hispanics	1,208	1,200	1,227	1,239	1,132	1,249	1,319
Hispanics	634	784	731	747	853	813	883
American Indians or Alaskan Natives	105	69	75	88	111	98	115
U.S. citizens and permanent residents, unknown race/ethnicity	497	364	502	459	437	372	332
Nonresident aliens[2]	659	727	712	516	441	493	550
	Men						
Total, all recipients	17,999	17,113	16,329	15,309	15,089	14,835	14,649
U.S. citizens and permanent residents, total[1]	17,383	16,431	15,660	14,841	14,687	14,401	14,141
White, non-Hispanics	14,578	13,679	12,819	12,069	11,908	11,694	11,332
Asians	743	679	700	690	678	641	637
Underrepresented minorities, total	1,601	1,733	1,692	1,659	1,694	1,729	1,881
Black, non-Hispanics	941	953	968	949	892	959	1,042
Hispanics	567	722	655	629	710	687	741
American Indians or Alaskan Natives	93	58	69	81	92	83	98
U.S. citizens and permanent residents, unknown race/ethnicity	461	340	449	423	407	337	291
Nonresident aliens[2]	616	682	669	468	402	434	508
	Women						
Total, all recipients	2,099	2,037	1,965	1,804	1,898	1,819	1,893
U.S. citizens and permanent residents, total[1]	2,056	1,992	1,922	1,756	1,859	1,760	1,851
White, non-Hispanics	1,578	1,572	1,460	1,217	1,337	1,215	1,284
Asians	96	76	68	88	90	79	90
Underrepresented minorities, total	346	320	341	415	402	431	436
Black, non-Hispanics	267	247	259	290	240	290	277
Hispanics	67	62	76	118	143	126	142
American Indians or Alaskan Natives	12	11	6	7	19	15	17
U.S. citizens and permanent residents, unknown race/ethnicity	36	24	53	36	30	35	41
Nonresident aliens[2]	43	45	43	48	39	59	42

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are a summary of instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 32. Number of earned master's degrees awarded in engineering technologies, by race/ethnicity and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	1,135	1,194	1,188	1,278	1,555	1,547	1,577
U.S. citizens and permanent residents, total[1]	1,004	1,032	1,016	1,063	1,276	1,256	1,268
White, non-Hispanics	802	823	830	817	1,041	994	982
Asians	40	79	60	58	40	46	55
Underrepresented minorities, total	67	58	69	92	94	112	131
Black, non-Hispanics	55	44	47	64	61	72	85
Hispanics	10	9	19	23	25	37	40
American Indians or Alaskan Natives	2	5	3	5	8	3	6
U.S. citizens and permanent residents, unknown race/ethnicity	95	72	57	96	101	104	100
Nonresident aliens[2]	131	162	172	215	279	291	309
	Men						
Total, all recipients	892	888	888	971	1,172	1,164	1,136
U.S. citizens and permanent residents, total[1]	789	757	757	815	961	949	940
White, non-Hispanics	631	607	619	619	783	753	726
Asians	36	40	39	45	28	33	41
Underrepresented minorities, total	48	43	47	66	57	75	89
Black, non-Hispanics	40	32	29	46	32	48	53
Hispanics	7	7	17	16	18	27	32
American Indians or Alaskan Natives	1	4	1	4	7	0	4
U.S. citizens and permanent residents, unknown race/ethnicity	74	67	52	85	93	88	84
Nonresident aliens[2]	103	131	131	156	211	215	196
	Women						
Total, all recipients	243	306	300	307	383	383	441
U.S. citizens and permanent residents, total[1]	215	275	259	248	315	307	328
White, non-Hispanics	171	216	211	198	258	241	256
Asians	4	39	21	13	12	13	14
Underrepresented minorities, total	19	15	22	26	37	37	42
Black, non-Hispanics	15	12	18	18	29	24	32
Hispanics	3	2	2	7	7	10	8
American Indians or Alaskan Natives	1	1	2	1	1	3	2
U.S. citizens and permanent residents, unknown race/ethnicity	21	5	5	11	8	16	16
Nonresident aliens[2]	28	31	41	59	68	76	113

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

Engineering technologies are a summary of instructional programs that prepare individuals to support and assist engineering and related professionals or to independently provide such services. Programs stress specialized, practical knowledge related to the mathematical, scientific, or technical aspects of engineering and related sciences.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics, IPEDS Completions Surveys, 1989-95.

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Table 33. Number of earned bachelor's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	60,114	59,852	60,228	62,655	67,942	75,229	80,629
U.S. citizens and permanent residents, total[1]	59,367	59,056	59,250	61,792	66,929	74,200	79,608
White, non-Hispanics	49,854	48,405	48,798	51,328	55,482	61,624	64,992
Asians	1,698	1,823	1,981	2,229	2,469	3,024	3,488
Underrepresented minorities, total	6,474	6,890	6,881	7,048	7,758	8,225	9,453
Black, non-Hispanics	3,886	4,056	4,122	4,151	4,670	4,817	5,691
Hispanics	2,348	2,580	2,481	2,571	2,747	3,018	3,305
American Indians or Alaskan Natives	240	254	278	326	341	390	457
U.S. citizens and permanent residents, unknown race/ethnicity	1,341	1,938	1,590	1,187	1,220	1,327	1,675
Nonresident aliens[2]	747	796	978	863	1,013	1,029	1,021
	Men						
Total, all recipients	9,068	9,418	9,855	10,305	11,467	13,180	14,564
U.S. citizens and permanent residents, total[1]	8,842	9,176	9,572	10,057	11,189	12,912	14,295
White, non-Hispanics	7,339	7,521	7,717	8,230	9,081	10,627	11,503
Asians	398	392	468	541	561	694	891
Underrepresented minorities, total	899	1,030	1,094	1,032	1,285	1,315	1,595
Black, non-Hispanics	451	502	525	530	673	659	850
Hispanics	401	491	519	441	545	576	652
American Indians or Alaskan Natives	47	37	50	61	67	80	93
U.S. citizens and permanent residents, unknown race/ethnicity	206	233	293	254	262	276	306
Nonresident aliens[2]	226	242	283	248	278	268	269
	Women						
Total, all recipients	51,046	50,434	50,373	52,350	56,475	62,049	66,065
U.S. citizens and permanent residents, total[1]	50,525	49,880	49,678	51,735	55,740	61,288	65,313
White, non-Hispanics	42,515	40,884	41,081	43,098	46,401	50,997	53,489
Asians	1,300	1,431	1,513	1,688	1,908	2,330	2,597
Underrepresented minorities, total	5,575	5,860	5,787	6,016	6,473	6,910	7,858
Black, non-Hispanics	3,435	3,554	3,597	3,621	3,997	4,158	4,841
Hispanics	1,947	2,089	1,962	2,130	2,202	2,442	2,653
American Indians or Alaskan Natives	193	217	228	265	274	310	364
U.S. citizens and permanent residents, unknown race/ethnicity	1,135	1,705	1,297	933	958	1,051	1,369
Nonresident aliens[2]	521	554	695	615	735	761	752

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 34. Number of earned master's degrees awarded in health fields, by race/ethnicity and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	19,410	20,482	21,398	23,213	25,823	28,314	31,481
U.S. citizens and permanent residents, total[1]	18,337	19,400	20,160	21,903	24,357	26,814	29,734
White, non-Hispanics	15,474	16,284	17,002	18,464	20,509	22,154	24,141
Asians	537	600	600	709	830	962	1,519
Underrepresented minorities, total	1,430	1,523	1,667	1,867	2,084	2,528	2,784
Black, non-Hispanics	814	886	1,004	1,092	1,251	1,431	1,609
Hispanics	535	558	572	685	718	967	1,049
American Indians or Alaskan Natives	81	79	91	90	115	130	126
U.S. citizens and permanent residents, unknown race/ethnicity	896	993	891	863	934	1,170	1,290
Nonresident aliens[2]	1,073	1,082	1,238	1,310	1,466	1,500	1,747
	Men						
Total, all recipients	4,239	4,554	4,499	4,714	5,248	5,874	6,793
U.S. citizens and permanent residents, total[1]	3,720	4,080	3,956	4,175	4,638	5,274	6,078
White, non-Hispanics	3,094	3,309	3,215	3,399	3,807	4,216	4,658
Asians	162	181	170	215	222	295	578
Underrepresented minorities, total	321	313	362	352	399	495	568
Black, non-Hispanics	173	158	194	171	207	220	280
Hispanics	128	135	146	158	172	250	261
American Indians or Alaskan Natives	20	20	22	23	20	25	27
U.S. citizens and permanent residents, unknown race/ethnicity	143	277	209	209	210	268	274
Nonresident aliens[2]	519	474	543	539	610	600	715
	Women						
Total, all recipients	15,171	15,928	16,899	18,499	20,575	22,440	24,688
U.S. citizens and permanent residents, total[1]	14,617	15,320	16,204	17,728	19,719	21,540	23,656
White, non-Hispanics	12,380	12,975	13,787	15,065	16,702	17,938	19,483
Asians	375	419	430	494	608	667	941
Underrepresented minorities, total	1,109	1,210	1,305	1,515	1,685	2,033	2,216
Black, non-Hispanics	641	728	810	921	1,044	1,211	1,329
Hispanics	407	423	426	527	546	717	788
American Indians or Alaskan Natives	61	59	69	67	95	105	99
U.S. citizens and permanent residents, unknown race/ethnicity	753	716	682	654	724	902	1,016
Nonresident aliens[2]	554	608	695	771	856	900	1,032

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: Data on race/ethnicity of degree recipients were collected on broad fields of study only until 1994; therefore, these trend data could not be adjusted to the exact field taxonomies used by NSF.

SOURCE: Tabulations by National Science Foundation/SRS; data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 35. Number of earned doctoral degrees awarded in health fields, by race/ethnicity and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	974	956	1,041	1,112	1,197	1,296	1,331
U.S. citizens and permanent residents, total[1]	756	756	839	855	939	1,050	1,045
White, non-Hispanics	684	662	720	735	800	867	835
Asians	22	39	44	52	45	94	94
Underrepresented minorities, total	43	50	61	56	89	77	99
Black, non-Hispanics	29	32	40	38	59	46	60
Hispanics	11	17	16	13	24	25	30
American Indians or Alaskan Natives	3	1	5	5	6	6	9
U.S. citizens and permanent residents, unknown race/ethnicity	7	5	14	12	5	12	17
Nonresident aliens[2]	134	166	171	226	214	230	245
Citizenship unknown	84	34	31	31	44	16	41
	Men						
Total, all recipients	345	364	373	402	420	453	487
U.S. citizens and permanent residents, total[1]	225	239	252	226	260	328	325
White, non-Hispanics	195	203	199	177	208	258	234
Asians	13	17	21	22	22	48	52
Underrepresented minorities, total	13	17	27	21	26	19	35
Black, non-Hispanics	9	14	17	14	18	11	18
Hispanics	4	2	7	4	8	7	15
American Indians or Alaskan Natives	0	1	3	3	0	1	2
U.S. citizens and permanent residents, unknown race/ethnicity	4	2	5	6	4	3	4
Nonresident aliens[2]	87	101	101	159	138	115	142
Citizenship unknown	33	24	20	17	22	10	20
	Women						
Total, all recipients	629	592	668	710	777	843	844
U.S. citizens and permanent residents, total[1]	531	517	587	629	679	722	720
White, non-Hispanics	489	459	521	558	592	609	601
Asians	9	22	23	30	23	46	42
Underrepresented minorities, total	30	33	34	35	63	58	64
Black, non-Hispanics	20	18	23	24	41	35	42
Hispanics	7	15	9	9	16	18	15
American Indians or Alaskan Natives	3	0	2	2	6	5	7
U.S. citizens and permanent residents, unknown race/ethnicity	3	3	9	6	1	9	13
Nonresident aliens[2]	47	65	70	67	76	115	103
Citizenship unknown	51	10	11	14	22	6	21

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

Table 36. First-professional degrees awarded, by race/ethnicity and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	71,318	71,551	72,636	74,801	76,068	76,000	76,457
U.S. citizens and permanent residents, total[1]	70,358	70,515	71,550	73,459	74,520	74,563	74,846
White, non-Hispanics	59,597	59,376	59,692	59,869	60,338	58,476	58,239
Asians	2,903	3,299	3,772	4,757	5,107	5,759	6,277
Underrepresented minorities, total	6,025	6,549	6,984	7,334	8,075	8,314	8,877
Black, non-Hispanics	3,017	3,337	3,535	3,568	4,078	4,329	4,657
Hispanics	2,746	2,959	3,191	3,472	3,632	3,623	3,816
American Indians or Alaskan Natives	262	253	258	294	365	362	404
U.S. citizens and permanent residents, unknown race/ethnicity	1,833	1,291	1,102	1,499	1,000	2,014	1,453
Nonresident aliens[2]	960	1,036	1,086	1,342	1,548	1,437	1,611
	Men						
Total, all recipients	45,399	44,309	44,226	45,459	45,565	45,068	45,193
U.S. citizens and permanent residents, total[1]	44,728	43,607	43,464	44,511	44,462	44,053	44,112
White, non-Hispanics	38,499	37,367	36,926	37,089	36,896	35,526	35,409
Asians	1,772	1,946	2,171	2,728	2,831	3,139	3,423
Underrepresented minorities, total	3,375	3,501	3,663	3,831	4,122	4,155	4,388
Black, non-Hispanics	1,568	1,627	1,653	1,620	1,777	1,851	2,036
Hispanics	1,661	1,738	1,868	2,054	2,156	2,088	2,134
American Indians or Alaskan Natives	146	136	142	157	189	216	218
U.S. citizens and permanent residents, unknown race/ethnicity	1,082	793	704	863	613	1,233	892
Nonresident aliens[2]	671	702	762	948	1,103	1,015	1,081
	Women						
Total, all recipients	25,919	27,242	28,410	29,342	30,503	30,932	31,264
U.S. citizens and permanent residents, total[1]	25,630	26,908	28,086	28,948	30,058	30,510	30,734
White, non-Hispanics	21,098	22,009	22,766	22,780	23,442	22,950	22,830
Asians	1,131	1,353	1,601	2,029	2,276	2,620	2,854
Underrepresented minorities, total	2,650	3,048	3,321	3,503	3,953	4,159	4,489
Black, non-Hispanics	1,449	1,710	1,882	1,948	2,301	2,478	2,621
Hispanics	1,085	1,221	1,323	1,418	1,476	1,535	1,682
American Indians or Alaskan Natives	116	117	116	137	176	146	186
U.S. citizens and permanent residents, unknown race/ethnicity	751	498	398	636	387	781	561
Nonresident aliens[2]	289	334	324	394	445	422	530

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTE: First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of pre-professional training.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95

Table 37. First-professional degrees awarded in health fields, by race/ethnicity and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	29,518	28,787	28,183	28,303	29,475	29,680	30,757
U.S. citizens and permanent residents, total[1]	29,036	28,252	27,677	27,600	28,693	28,861	29,867
White, non-Hispanics	24,094	23,027	21,958	21,333	22,076	21,730	22,242
Asians	1,978	2,290	2,472	2,909	3,317	3,637	3,996
Underrepresented minorities, total	2,591	2,724	2,777	2,840	2,915	3,000	3,110
Black, non-Hispanics	1,159	1,251	1,285	1,288	1,350	1,437	1,525
Hispanics	1,323	1,373	1,381	1,417	1,426	1,432	1,461
American Indians or Alaskan Natives	109	100	111	135	139	131	124
U.S. citizens and permanent residents, unknown race/ethnicity	373	211	470	518	385	494	519
Nonresident aliens[2]	482	535	506	703	782	819	890
	Men						
Total, all recipients	19,596	18,562	17,777	17,694	17,704	17,565	17,975
U.S. citizens and permanent residents, total[1]	19,283	18,235	17,449	17,220	17,194	17,034	17,424
White, non-Hispanics	16,298	15,232	14,207	13,607	13,608	13,243	13,352
Asians	1,217	1,363	1,440	1,718	1,859	1,972	2,190
Underrepresented minorities, total	1,506	1,510	1,479	1,587	1,490	1,504	1,572
Black, non-Hispanics	581	606	573	604	556	582	649
Hispanics	861	847	841	907	858	840	858
American Indians or Alaskan Natives	64	57	65	76	76	82	65
U.S. citizens and permanent residents, unknown race/ethnicity	262	130	323	308	237	315	310
Nonresident aliens[2]	313	327	328	474	510	531	551
	Women						
Total, all recipients	9,922	10,225	10,406	10,609	11,771	12,115	12,782
U.S. citizens and permanent residents, total[1]	9,753	10,017	10,228	10,380	11,499	11,827	12,443
White, non-Hispanics	7,796	7,795	7,751	7,726	8,468	8,487	8,890
Asians	761	927	1,032	1,191	1,458	1,665	1,806
Underrepresented minorities, total	1,085	1,214	1,298	1,253	1,425	1,496	1,538
Black, non-Hispanics	578	645	712	684	794	855	876
Hispanics	462	526	540	510	568	592	603
American Indians or Alaskan Natives	45	43	46	59	63	49	59
U.S. citizens and permanent residents, unknown race/ethnicity	111	81	147	210	148	179	209
Nonresident aliens[2]	169	208	178	229	272	288	339

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of pre-professional training.

Health fields include: Chiropractic, Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry, and Veterinary Medicine.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

Table 38. First-professional degrees awarded in non-health fields, by race/ethnicity and sex of recipient: 1989-95

Citizenship and race/ethnicity	1989	1990	1991	1992	1993	1994	1995
	Total						
Total, all recipients	41,800	42,764	44,453	46,498	46,593	46,320	45,700
U.S. citizens and permanent residents, total[1]	41,322	42,263	43,873	45,859	45,827	45,702	44,979
White, non-Hispanics	35,503	36,349	37,734	38,536	38,262	36,746	35,997
Asians	925	1,009	1,300	1,848	1,790	2,122	2,281
Underrepresented minorities, total	3,434	3,825	4,207	4,494	5,160	5,314	5,767
Black, non-Hispanics	1,858	2,086	2,250	2,280	2,728	2,892	3,132
Hispanics	1,423	1,586	1,810	2,055	2,206	2,191	2,355
American Indians or Alaskan Natives	153	153	147	159	226	231	280
U.S. citizens and permanent residents, unknown race/ethnicity	1,460	1,080	632	981	615	1,520	934
Nonresident aliens[2]	478	501	580	639	766	618	721
	Men						
Total, all recipients	25,803	25,747	26,449	27,765	27,861	27,503	27,218
U.S. citizens and permanent residents, total[1]	25,445	25,372	26,015	27,291	27,268	27,019	26,688
White, non-Hispanics	22,201	22,135	22,719	23,482	23,288	22,283	22,057
Asians	555	583	731	1,010	972	1,167	1,233
Underrepresented minorities, total	1,869	1,991	2,184	2,244	2,632	2,651	2,816
Black, non-Hispanics	987	1,021	1,080	1,016	1,221	1,269	1,387
Hispanics	800	891	1,027	1,147	1,298	1,248	1,276
American Indians or Alaskan Natives	82	79	77	81	113	134	153
U.S. citizens and permanent residents, unknown race/ethnicity	820	663	381	555	376	918	582
Nonresident aliens[2]	358	375	434	474	593	484	530
	Women						
Total, all recipients	15,997	17,017	18,004	18,733	18,732	18,817	18,482
U.S. citizens and permanent residents, total[1]	15,877	16,891	17,858	18,568	18,559	18,683	18,291
White, non-Hispanics	13,302	14,214	15,015	15,054	14,974	14,463	13,940
Asians	370	426	569	838	818	955	1,048
Underrepresented minorities, total	1,565	1,834	2,023	2,250	2,528	2,663	2,951
Black, non-Hispanics	871	1,065	1,170	1,264	1,507	1,623	1,745
Hispanics	623	695	783	908	908	943	1,079
American Indians or Alaskan Natives	71	74	70	78	113	97	127
U.S. citizens and permanent residents, unknown race/ethnicity	640	417	251	426	239	602	352
Nonresident aliens[2]	120	126	146	165	173	134	191

[1] Racial/ethnic categories are as designated on the survey form. These categories include U.S. citizens and foreign citizens on permanent visas (i.e., resident aliens who have been admitted for permanent residency).

[2] Nonresident aliens include foreign citizens on temporary visas only.

NOTES: First-professional degrees are defined as those that require at least 6 years of college work for completion and 2 years of pre-professional training.

Non-health fields include: Law, Divinity/Ministry, and Rabbinical and Talmudic Studies.

SOURCE: Tabulations by National Science Foundation/SRS, data from National Center for Education Statistics IPEDS Completions Surveys, 1989-95.

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SECTION E.

CLASSIFICATION OF PROGRAMS

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
SCIENCE AND ENGINEERING (S&E)	**SCIENCE AND ENGINEERING (S&E)**	**SCIENCE AND ENGINEERING (S&E)**
ENGINEERING	**ENGINEERING**	**ENGINEERING**
14 Engineering	14 Engineering	**Aeronautical/Astronautical Engineering**
		300 Aerospace, Aeronautical, and Astronautical Engineering
		Chemical Engineering
		312 Chemical Engineering
		366 Petroleum Engineering
		369 Polymer and Plastics Engineering
		547 Fuel Technology and Petroleum Engineering
		Civil Engineering
		315 Civil Engineering
		336 Environmental Health Engineering
		Electrical Engineering
		318 Communications Engineering
		321 Computer Engineering
		322 Electrical Engineering
		323 Electronics Engineering
		324 Electrical and Electronics Engineering
		Industrial Engineering
		339 Industrial and Manufacturing Engineering
		Mechanical Engineering
		327 Engineering Mechanics
		345 Mechanical Engineering

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
		Materials/Metallurgical Engineering 309 Ceramic Sciences 342 Materials Science 348 Metallurgical Engineering **Other Engineering** 303 Agricultural Engineering 306 Bioengineering and Biomedical Engineering 330 Engineering Physics 333 Engineering Science 351 Mining and Mineral Engineering 354 Naval Architecture and Marine Engineering 357 Nuclear Engineering 360 Ocean Engineering 363 Operations Research 372 Systems Engineering 375 Textile Engineering 398 Engineering, General 399 Engineering, Other
SCIENCES NATURAL SCIENCES **Physical Science** 40 Physical Sciences (Includes Earth/Atmospheric/ Oceanographic Sciences)	**SCIENCES** NATURAL SCIENCES **Physical Science** 40 Physical Sciences (Includes Earth/ Atmospheric/Ocean-ographic Sciences)	**SCIENCES** NATURAL SCIENCES/ PHYSICAL SCIENCES **Astronomy** 500 Astronomy 505 Astrophysics 506 Astronomy and Astrophysics **Chemistry** 520 Analytical Chemistry 521 Agricultural and Food Chemistry 522 Inorganic Chemistry 524 Nuclear Chemistry 526 Organic Chemistry 528 Pharmaceutical Chemistry 530 Physical Chemistry 532 Polymer Chemistry 534 Theoretical Chemistry

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
		538 Chemistry, General 539 Chemistry, Other **Physics** 560 Acoustics 561 Chemical and Atomic/ Molecular Physics 562 Electron Physics 563 Electromagnetic Physics 564 Elementary Particle Physics 566 Fluids 567 Mechanics 568 Nuclear Physics 569 Optics 570 Plasma and High-Temperature Physics 572 Polymer Physics 573 Thermal Physics 574 Solid State and Low-Temperature Physics 575 Theoretical Physics 578 Physics, General 579 Physics, Other **Other Physical Sciences** 599 Physical Sciences, Other **Atmospheric Sciences** 510 Atmospheric Physics and Chemistry 512 Atmospheric Dynamics 514 Meteorology 518 Atmospheric Science/ Meteorology, General 519 Atmospheric Science/ Meteorology, Other **Geosciences** 540 Geology 542 Geochemistry 544 Geophysics and Seismology 545 Geophysics (Solid Earth) 546 Paleontology 548 Mineralogy and Petrology

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
		549 Mineralogy, Petrology, and Geochemistry 550 Stratigraphy and Sedimentation 552 Geomorphology and Glacial Geology 554 Applied Geology 555 Applied Geology and Geological Engineering 558 Geological and Related Sciences, General 559 Geological and Related Sciences, Other 585 Hydrology and Water Resources **Oceanography** 590 Oceanography 595 Marine Sciences **Other Environmental Sciences** 580 Environmental Science
Mathematical Science 27 Mathematics	**Mathematical Science** 27 Mathematics	MATHEMATICAL/COMPUTER SCIENCES **Mathematics** 420 Applied Mathematics 425 Algebra 430 Analysis and Functional Analysis 435 Geometry 440 Logic 445 Number Theory 450 Mathematical Statistics 455 Topology 460 Computing Theory and Practice 465 Operations Research 498 Mathematics, General 499 Mathematics, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
Computer Science	**Computer Science**	**Computer Science**
11 Computer and Information Sciences	11 Computer and Information Sciences	400 Computer Science 410 Information Science and Systems
		BIOLOGICAL/AGRICULTURAL SCIENCES
Agricultural Science	**Agricultural Science**	**Agricultural Sciences**
02 Agricultural Sciences 03 Renewable Natural Resources	02 Agricultural Sciences 03 Conservation and Renewable Natural Resources	005 Animal Breeding and Genetics 007 Animal Husbandry 010 Animal Nutrition 012 Dairy Science 014 Poultry Science 019 Animal Sciences, Other 020 Agronomy and Crop Science 025 Plant Breeding and Genetics 030 Plant Pathology 032 Plant Protection/Pest Management 039 Plant Sciences, Other 040 Food Sciences 042 Food Distribution 043 Food Engineering 044 Food Sciences, Other 045 Soil Sciences 046 Soil Chemistry and Microbiology 049 Soil Sciences, Other 050 Horticulture Science 054 Fish and Wildlife 055 Fisheries Science and Management 060 Wildlife Management 065 Forestry Sciences 066 Forest Biology 068 Forest Engineering 070 Forest Management 072 Wood Science and Pulp/Paper Technology 074 Conservation and Renewable Natural Resources 079 Forestry and Related Sciences

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
		080 Wildlife and Range Management 098 Agricultural Science, General 099 Agricultural Science, Other
Biological Science 26 Biological Sciences/Life Sciences	**Biological Science** 26 Biological Sciences/Life Sciences	**Biological Sciences** 100 Biochemistry 105 Biophysics 107 Biotechnology Research 110 Bacteriology 115 Plant Genetics 120 Plant Pathology 125 Plant Physiology 129 Botany, Other 130 Anatomy 133 Biometrics and Biostatistics 136 Cell Biology 139 Ecology 140 Hydrobiology 142 Embryology 145 Endocrinology 148 Entomology 151 Biological Immunology 154 Molecular Biology 156 Microbiology and Bacteriology 157 Microbiology 160 Neuroscience 163 Nutritional Sciences 166 Parasitology 169 Toxicology 170 Genetics, Human and Animal 171 Genetics 175 Pathology, Human and Animal 180 Pharmacology, Human and Animal 185 Physiology, Human and Animal 186 Animal and Plant Physiology 189 Zoology, Other 198 Biological Sciences, General 199 Biological Sciences, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
SOCIAL SCIENCES	**SOCIAL SCIENCES**	**SOCIAL SCIENCES**
		Economics
		000 Agricultural Economics
		666 Economics
		668 Econometrics
		Political Science
		674 International Relations/Affairs
		678 Political Science and Government
		679 Political Science and Public Administration
		682 Public Policy Analysis
		976 Public Administration
		Sociology
		662 Demography and Population Studies
		686 Sociology
Social Science	**Social Science**	**Other Social Sciences**
05 Area and Ethnic Studies	05 Area, Ethnic, and Cultural Studies	650 Anthropology
45 Social Sciences	45 Social Sciences and History	652 Area Studies
		658 Criminology
		670 Geography
		690 Statistics
		694 Urban Affairs/Studies
		698 Social Sciences, General
		699 Social Sciences, Other
		710 History and Philosophy of Science and Technology
		729 Linguistics
		770 American Studies
		773 Archeology
Psychology	**Psychology**	**Psychology**
42 Psychology	42 Psychology	600 Clinical Psychology
		603 Cognitive Psychology and Psycholinguistics
		606 Comparative Psychology
		609 Counseling Psychology
		612 Developmental and Child Psychology
		615 Experimental Psychology

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
		616 Experimental, Physiological Psychology
		618 Educational Psychology
		619 Human Engineering
		621 Industrial and Organizational Psychology
		624 Personality Psychology
		627 Physiological Psychology/ Psychobiology
		630 Psychometrics
		633 Quantitative Psychology
		636 School Psychology
		639 Social Psychology
		648 Psychology, General
		649 Psychology, Other
NON-S&E	**NON-S&E**	**NON-S&E**
01 Agribusiness and Agricultural Production	01 Agricultural Business and Production	**MEDICAL SCIENCES**
04 Architecture and Environmental Design	04 Architecture and Related Programs	205 Dentistry
06 Business and Management	08 Marketing Operations/ Marketing and Distribution	210 Environmental Health
07 Business (Administrative Support), Other	09 Communications	215 Public Health
08 Marketing and Distribution	10 Communications Technologies	219 Public Health and Epidemiology
09 Communications	12 Personal and Miscellaneous Services	220 Epidemiology
12 Consumer, Personal, and Miscellaneous Services	13 Education	225 Medicine and Surgery
13 Education	15 Engineering-Related Technologies	235 Optometry and Ophthalmology
16 Foreign Languages	16 Foreign Languages and Literatures	240 Pharmacy
17 Allied Health	17 Allied Health	250 Veterinary Science
18 Health Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic)		**OTHER SCIENCES**
19 Home Economics		200 Speech/Language Pathology and Audiology
20 Vocational Home Economics		212 Health Systems/Services Administration
		224 Hospital Administration
		230 Nursing
		245 Rehabilitation/Therapeutic Services
		298 Health Sciences, General
		299 Health Sciences, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
22 Law	18 Health Professions and Related Sciences (Including Dentistry, Medicine, Optometry, Osteopathic Medicine, Pharmacy, Podiatry or Podiatric Medicine or Chiropody, Veterinary Medicine, Chiropractic, Allied Health)	**HISTORY**
23 Letters	19 Home Economics	700 History, American
24 Liberal/General Studies	20 Vocational Home Economics	705 History, European
25 Library and Archival Sciences	22 Law and Legal Studies	718 History, General
28 Military Sciences	23 English Language and Literature/Letters	719 History, Other
29 Military Technologies	24 Liberal/General Studies	**ENGLISH AND LITERATURE**
30 Multi-/Interdisciplinary Studies	25 Library and Archival Sciences	720 Classics
31 Parks and Recreation	28 Reserve Officer Training Corps (ROTC)	723 Comparative Literature
38 Philosophy and Religion	29 Military Technologies	725 English and American Literature
39 Theology	30 Multi-/Interdisciplinary Studies	732 Literature, American
41 Science Technologies	31 Parks, Recreation, Leisure, and Fitness Studies	733 Literature, English
44 Public Affairs (Does not include Parks and Recreation Management, and Law Enforcement and Correction)	38 Philosophy and Religion	734 English Language
43 Protective Services	39 Theological Studies and Religious Vocations	736 Speech and Rhetorical Studies
46 Construction Trades	41 Science Technologies	738 Letters, General
47 Mechanics and Repairers	43 Protective Services	739 Letters, Other
48 Precision Production	44 Public Administration and Services (Does not include Parks and Recreation Management, and Law Enforcement and Correction)	**FOREIGN LANGUAGES**
49 Transportation and Material Moving	46 Construction Trades	740 French
50 Visual and Performing Arts	47 Mechanics and Repairers	743 German
	48 Precision Production Trades	746 Italian
	49 Transportation and Materials Moving Workers	749 Spanish
	50 Visual and Performing Arts	752 Russian
	52 Business Management and Administrative Services	755 Slavic (Other than Russian)
		758 Chinese
		762 Japanese
		765 Hebrew
		768 Arabic
		769 Other Languages and Literature
		OTHER HUMANITIES
		785 Philosophy (See also 440)
		798 Humanities, General
		799 Humanities, Other
		RELIGION AND THEOLOGY
		790 Religion (See also 984)
		791 Religion and Theology
		984 Theology/Religious Education (See also 790)

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Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
		825 School Psychology (See also 636)
		830 Social/Philosophical Foundations of Education
		835 Special Education
		840 Counseling Education/ Counseling and Guidance Services
		845 Education Evaluation and Research
		850 Pre-elementary/Early Childhood Teacher Education
		852 Elementary Teacher Education
		854 Junior High Teacher Education
		856 Secondary Teacher Education
		858 Adult and Continuing Teacher Education
		861 Art Education
		862 Business Education
		864 English Education
		866 Foreign Languages Education
		867 Physical Education, Health, and Recreation
		870 Home Economics Education
		876 Music Education
		880 Physical Education and Coaching
		882 Reading Education
		886 Speech Education
		888 Trade and Industrial Education
		889 Teacher Education, Specific Academic and Vocational Programs, Other
		898 Education, General
		899 Education, Other

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
		BUSINESS AND MANAGEMENT
		002 Agricultural Business and Management
		900 Accounting
		905 Banking/Financial Support Services
		910 Business Administration and Management
		915 Business/Managerial Economics
		917 Management Information Systems/Business Data Processing
		920 Marketing Management and Research
		925 Business Statistics
		930 Operations Research (See also 363, 465)
		935 Organizational Behavior (See also 621)
		938 Business Management/ Administrative Services, General
		939 Business Management/ Administrative Services, Other
		INFORMATION FIELDS (JOURNALISM, BROADCASTING, LIBRARIANSHIP)
		940 Communications Research
		945 Journalism
		947 Mass Communications
		950 Radio and Television
		957 Communication Theory
		958 Communications, General
		959 Communications, Other
		972 Library Science
		LAW
		968 Law

Historical Changes in the Higher Education General Information Survey (HEGIS)/ Integrated Postsecondary Education Data System (IPEDS) Classification System—continued

Fields of study collected in HEGIS/IPEDS, 1985–91	Fields of study from the IPEDS, 1992–95	Fields of study from the Survey of Earned Doctorates classification
		SOCIAL SERVICE PROFESSIONS 980 Social Service Professions **VOCATIONAL STUDIES AND HOME ECONOMICS** 964 Home Economics **OTHER NON-SCIENCE FIELDS** 974 Parks/Recreation/ Leisure/Fitness 988 Professional Fields, General 989 Professional Fields, Other 999 Other Fields

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